Acrel

【Stock Code：300286.SZ】

CERTIFICATE

2023.08

Address:No.253 Yu Lv Road Jiading District,Shanghai,China ZIP:201801
TEL:0086-21-69158338 0086-21-69156052 0086-21-59106392 0086-21-69156971
Web-site:www.acrel-electric.com Email:acrel008@vip.163.com

Address: No.5 Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China. ZIP: 214405
Factory: Jiangsu Acrel Electrical Manufacturing Co., Ltd. Email: sales@email.acrel.cn
Web-site: www.jsacrel.com

ACREL CO.,LTD

www.acrel-electric.com

COMPANY PROFILE

Acrel Co., Ltd. [Stock Code : 300286. SZ] is a high-tech enterprise concentrating on research, production, sales and services. It mainly provides systemic solutions of energy efficiency management and electrical safety for users. ‘Acrel’ is equipped with the complete production lines from cloud platform software to sensors. Until now, it has more than 8000 sets systemic solutions used in China to help users to realize energy visual management ,supply energy data services and improve electrical efficiency and safety. ‘Acrel’ has maintained steady growth since its listing in 2012. The company will adhere to the concept of ‘innovation,high-efficiency,unity and honesty’ and it provides more high-quality solutions,products and service for power system users and micro-grid.

Acrel Energy Efficiency Management Systems include various cloud platforms for substation operation and maintenance, electrical safety, environmental equipment monitoring and prepaid management, and many systems and related products such as intelligent transformer and distribution monitoring system, power quality management system, building energy consumption management systems, industrial energy management and control platform, leakage fire monitoring system, fire power monitoring system, fire resistant door monitoring system, emergency lighting and evacuation instructions system, charge management system for charging piles, dynamic monitoring system for data center , intelligent lighting control system,IT distribution insulation monitoring system and so on.

Jiangsu Acrel Electrical Manufacturing Co.,LTD., a production base located in Jiangyin City, Wuxi, is a pilot enterprise of Jiangsu Province. It has a fully-functional product test center and it can carry out various tests such as environmental test,EMC test, safety and reliability tests and so on. The production process relies on advanced information management system and strict implementation of ISO 9001 management standards, which provides guarantee for industrialization and large-scale implementation of products. The annual production capacity is 10350 pieces,among them,there are 2 million meters,1.5 million power transformers and 10,000 energy-saving cabinet sets.

In order to quickly respond to customers’ demands, the company set up branches and offices in major cities in China and provides users with high-quality product experience.

By the end of 2018, ‘Acrel’ had 5 trademarks, 18 invention patents, 70 utility model patents, 93 appearance patents and 147 computer software copyrights, and participated in formulation of national multiple industry standards.

Through years of accumulation and development, the company has won wide praise in product quality and service from customers at home and abroad.

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-RoHS of AKH-0.66 seres
-REACH of AKH-0.66 series
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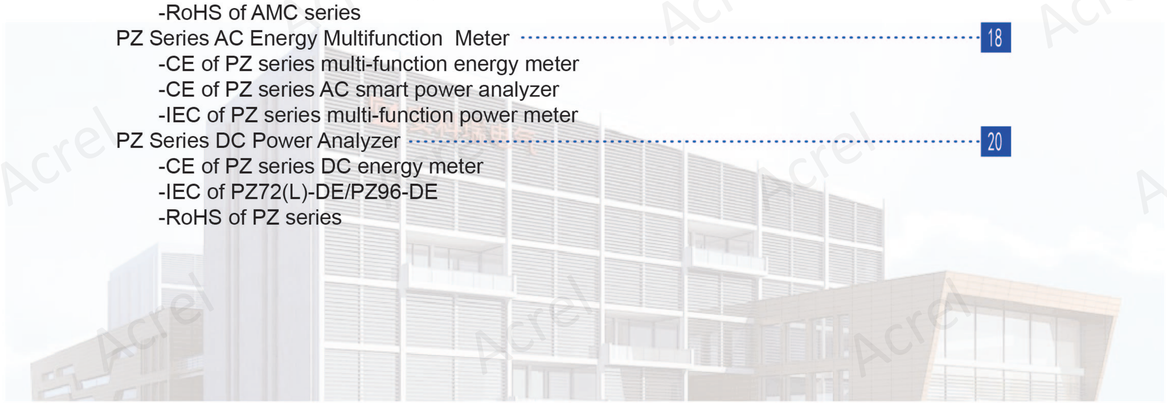
PZ Series DC Power Analyzer 20
-CE of PZ series DC energy meter
-IEC of PZ72(L)-DE/PZ96-DE
-RoHS of PZ series



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-IEC of ADL3000-E/ADL3000
-EAC of ADL10-E/ADL100-ET/ADL100-EY/ADL200/ADL400
-RoHS of ADL series
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2.8 Tips 64

Part 1 Enterprise Qualification

ISO14001 Environmental Management System Certificate



Environmental Management System Certificate

(Copy)
This is to certify that

ACREL CO., LTD.

Unified Social Credit Identifier 91310000717866935U

Registration Address: NO.253, YULV ROAD, JIADING DISTRICT, SHANGHAI, CHINA

Has implemented and maintains an Environmental Management System in compliance with

GB/T 24001-2016 idt ISO 14001:2015

The Environmental Management System is applicable to:

DESIGN, DEVELOPMENT AND AFTER-SALES SERVICING OF ELECTRICAL METERS, MEASUREMENT AND CONTROL DEVICES; DESIGN AND DEVELOPMENT OF APPLICATION SOFTWARE; INTEGRATION OF THE POWER METERING MANAGEMENT SYSTEM AND POWER DISTRIBUTION AND TRANSFORMATION SUPERVISION SYSTEM

Involved site (s) and relevant activities

Address	Zip Code	Main Activities
NO.253, YULV ROAD, JIADING DISTRICT, SHANGHAI, CHINA	201821	DESIGN, DEVELOPMENT AND AFTER SALES SERVICING OF ELECTRICAL METERS, MEASUREMENT AND CONTROL DEVICES; DESIGN AND DEVELOPMENT OF APPLICATION SOFTWARE; INTEGRATION OF THE POWER METERING MANAGEMENT SYSTEM AND POWER DISTRIBUTION AND TRANSFORMATION SUPERVISION SYSTEM

Zhou Qunsheng
General Manager
CEPREI CERTIFICATION BODY

ISO27001 Information Security Management System Certificate



Information Security Management System Certificate

(Original)
This is to certify that

ACREL CO., LTD.

Unified Social Credit Identifier 91310000717866935U

Registration Address: NO.253, YULV ROAD, JIADING DISTRICT, SHANGHAI, CHINA

Has implemented and maintains an Information Security Management System in compliance with

GB/T 22080-2016/ISO/IEC 27001:2013

The Information Security Management System is applicable to:

INFORMATION SECURITY MANAGEMENT OF DESIGN AND DEVELOPMENT OF ELECTRICAL METERS, MEASUREMENT AND CONTROL DEVICES; DESIGN AND DEVELOPMENT OF APPLICATION SOFTWARE; INTEGRATION AND OPERATION & MAINTENANCE SERVICING OF THE POWER METERING MANAGEMENT SYSTEM AND POWER DISTRIBUTION AND TRANSFORMATION SUPERVISION SYSTEM

This is in accordance with the Statement of Applicability, A/1

Registration Number: 012324Y03208R1M
Issue Date: May 19, 2023
Expiry Date: October 31, 2029

Involved site (s) and relevant activities

Address	Main Activities
NO.253, YULV ROAD, JIADING DISTRICT, SHANGHAI, CHINA	INFORMATION SECURITY MANAGEMENT OF DESIGN AND DEVELOPMENT OF ELECTRICAL METERS, MEASUREMENT AND CONTROL DEVICES; DESIGN AND DEVELOPMENT OF APPLICATION SOFTWARE; INTEGRATION AND OPERATION & MAINTENANCE SERVICING OF THE POWER METERING MANAGEMENT SYSTEM AND POWER DISTRIBUTION AND TRANSFORMATION SUPERVISION SYSTEM

Zhou Qunsheng
General Manager
CEPREI CERTIFICATION BODY

ISO9001 Quality Management System Certificate



Quality Management System Certificate

(Original)
This is to certify that

JIANGSU ACREL ELECTRICAL MANUFACTURING CO., LTD.

Unified Social Credit Identifier 91320200717866935U

Registration Address: NO.5, DONGMENG ROAD, NANZHA STREET, JIANGYIN CITY, JIANGSU PROVINCE, CHINA AND NO.11, HONGJU ROAD, NANZHA STREET, JIANGYIN CITY, JIANGSU PROVINCE, CHINA

Has implemented and maintains a Quality Management System in compliance with

GB/T 19001-2016/ISO 9001:2015

The Quality Management System is applicable to:

DESIGN, MANUFACTURING AND AFTER-SALES SERVICING OF INTELLIGENT POWER METER, MEASURING/CONTROL DEVICE, CURRENT TRANSFORMER, LOW-VOLTAGE ELECTRICAL ASSEMBLIES

Involved site (s) and relevant activities

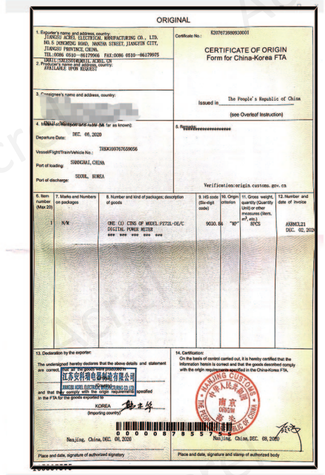
Address	Main Activities
NO.5, DONGMENG ROAD, NANZHA STREET, JIANGYIN CITY, JIANGSU PROVINCE, CHINA (HQ)	MANUFACTURING AND AFTER-SALES SERVICING OF INTELLIGENT POWER METER AND MEASURING/CONTROL DEVICE
NO.11, HONGJU ROAD, NANZHA STREET, JIANGYIN CITY, JIANGSU PROVINCE, CHINA	DESIGN, MANUFACTURING AND AFTER-SALES SERVICING OF CURRENT TRANSFORMER, LOW-VOLTAGE ELECTRICAL ASSEMBLIES
NO.4, MINCHENG ROAD, JIANGYIN CITY, JIANGSU PROVINCE, CHINA	DESIGN OF INTELLIGENT POWER METER AND MEASURING/CONTROL DEVICE

Zhou Qunsheng
General Manager
CEPREI CERTIFICATION BODY

Part 1 Enterprise Qualification

C/O (Certificate of Origin)

Form E


ORIGINAL

CERTIFICATE OF ORIGIN
Form for China-Korea FTA

Issued in The People's Republic of China
(see Overleaf Instruction)

Verification:origin.customs.gov.cn

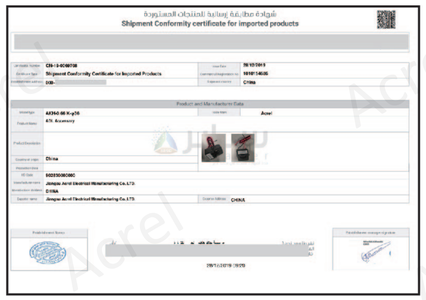
Form A


ORIGINAL

CERTIFICATE OF ORIGIN
Form for China-Chile FTA

Issued in THE PEOPLE'S REPUBLIC OF CHINA
(see instruction overleaf)

Shipment conformity certificate for imported products


Shipment Conformity certificate for imported products


شهادة حمايه إسالية للمنتجات المستوردة
Shipment Conformity certificate for imported products

Part 2 Product Qualification

2.1 Power Sensor

■ AKH-0.66 Series Current Transformer

CE of AKH-0.66 series



TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TA3H-22C210917-V1

Product: Current Transformer
Applicant: AcrelCo., Ltd.
No.222 Yi-Hi Road., Anting District, Shanghai
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.23 Hongfu Road, Nanzha Street, Jiangyin City, Jiangsu Province

Type / Models: Re'kc to Annex
Trademark / Brand: Acrel
Description / Technical Specification: Transformation Ratio: 2000A/1A
Rated frequency: 50/60Hz
Rated voltage: 0.66KV
EU Directive: 2014/35/EU
Relevant Standard(s) / Specifications: EN 61010-1:2010+A1:2019
Test report: 782506C/E502301
Comments: None

According to the above stated test records, the compliance of the above product have been found to comply with the applicable requirements of the mentioned standard(s) as if below the tests were carried out. The applicant may use the test report and this 'Verification' of Conformity in connection with his declaration of conformity stating the respective EU Directive(s) are Annex.

This Verification of Conformity' as described test is supplier / based on the results of testing performed by the applicant / manufacturer at an equipped laboratory and the storing and review of the test reports by TÜV AUSTRIA (SHENZHEN) CO., LTD. Therefore, it does not imply any assessment of the production manual, and, at the production process it is provided by TÜV AUSTRIA. Relative to the mentioned certification basis or any change of the design, examples, components or processing may require the repetition of all or some of the said audited tests in or be the final record and therefore this certificate is not valid. The manufacturer is responsible that the product shall not only meet the mentioned product, but service is to not over cases under a TÜV AUSTRIA certification program.

2022-03-02
Date of Issue
Ivan Huang

CE Mark may only be affixed to this product after it all beyond all applicable EL directives for this product and the preparation of the necessary technical documentation issued as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to update of the directive or standards, and/or change in products. TÜV AUSTRIA is responsible by and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, all we thus to the Client in accordance with the agreement, for any loss, expense or damage caused direct by the use of the Verification.

TÜV AUSTRIA (SHENZHEN) CO., LTD
Room 123, Office Clock or Building, No.547,
Xian Hu Road, Shanghai, PC 200336,
P.R. China

e-mail: office@tuv-austria.com.cn
TA3H-NCC-R01, Rev.00

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REACH of AKH-0.66 series



Report No. 48.400.21.7373.00-00/01
Dated 2021-02-02

China

SVHC Assessment Report

Client: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product: Transformer
Model: AKH-0.66 W3*20

Additional Model: AKH-0.66 30, AKH-0.66 40, AKH-0.66 60, AKH-0.66 80, AKH-0.66 100, AKH-0.66 -500, AKH-0.66 500, AKH-0.66 600, AKH-0.66 800, AKH-0.66 1000, AKH-0.66 W5*30, AKH-0.66 W5*50, AKH-0.66 100*50, AKH-0.66 150*50, AKH-0.66 120*100, AKH-0.66 150*100, AKH-0.66 200*100, AKH-0.66 250*100, AKH-0.66 300*100, AKH-0.66 250*125, AKH-0.66 300*150, AKH-0.66 600, AKH-0.66 800, AKH-0.66 1000, AKH-0.66 1500, AKH-0.66 G-30, AKH-0.66 G-30*20, AKH-0.66 G-40, AKH-0.66 G-50, AKH-0.66 G-60, AKH-0.66 G-80, AKH-0.66 G-100, AKH-0.66 G-120, AKH-0.66 G-150, AKH-0.66 G-200, AKH-0.66 P-50*30, AKH-0.66 P-80*50, AKH-0.66 P-100*50, AKH-0.66 P-120*80, AKH-0.66 P-150*80, AKH-0.66 Z-2*Φ20, AKH-0.66 Z-3*Φ20, AKH-0.66 Z-4*Φ30, AKH-0.66 Z-5*Φ30, AKH-0.66 MP-30*20, AKH-0.66 MP-40*30, AKH-0.66 MP-50*30, AKH-0.66 MP-60*40, AKH-0.66 MP-130*50, AKH-0.66 K-30*20, AKH-0.66 K-40*30, AKH-0.66 K-50*40, AKH-0.66 K-60*40, AKH-0.66 K-80*50, AKH-0.66 K-80*60, AKH-0.66 K-100*40, AKH-0.66 K-100*50, AKH-0.66 K-120*40, AKH-0.66 K-120*50, AKH-0.66 K-130*50, AKH-0.66 K-150*40, AKH-0.66 K-150*50, AKH-0.66 K-180*50, AKH-0.66 K-180*80, AKH-0.66 K-200*80, AKH-0.66 K-Φ10(N), AKH-0.66 K-Φ16(N), AKH-0.66 K-M24(N), AKH-0.66 K-M30(N), AKH-0.66 M-17, AKH-0.66 M-22, AKH-0.66 M-32, AKH-0.66 M-42

Purpose of Evaluation: Based on the Candidate List, to test the listed 219 substances of Substances of Very High Concern (SVHC) for Authorisation updated on 19 January, 2021, which was published in accordance with Article 59(10) of the REACH Regulation (EC) No 1907/2006.

Test method: 1) Test portion is digested with acid, analysed by ICP-OES and UV-VIS.
2) Organic solvent extraction, analysed by GC-MS, HPLC.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter 8.6.5

Decision Rule and Uncertainty:
Unless otherwise agreed upon, there is no decision rule given here on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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10 Huaxia Road(M), Zhongling, Wuxi
Jiangsu, 214192, P. R. China
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Shanghai Chemical Lab
No.1988 Dahui Road
Shanghai City
Tel.: +86-21-65376388

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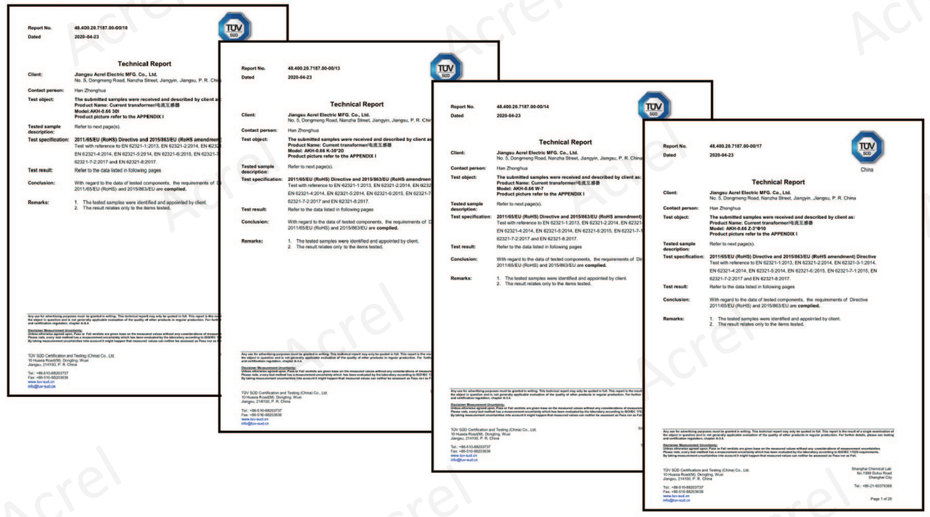
RoHS of AKH-0.66 series



Report No. 48.400.20.7187.00-00/19
Dated 2020-04-23

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 K-30*20
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7187.00-00/13
Dated 2020-04-23

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 K-30*20
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7187.00-00/14
Dated 2020-04-23

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 W 9/1
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7187.00-00/17
Dated 2020-04-23

China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 Z-2*Φ10
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Shanghai Chemical Lab
No.1988 Dahui Road
Shanghai City
Tel.: +86-21-65376388

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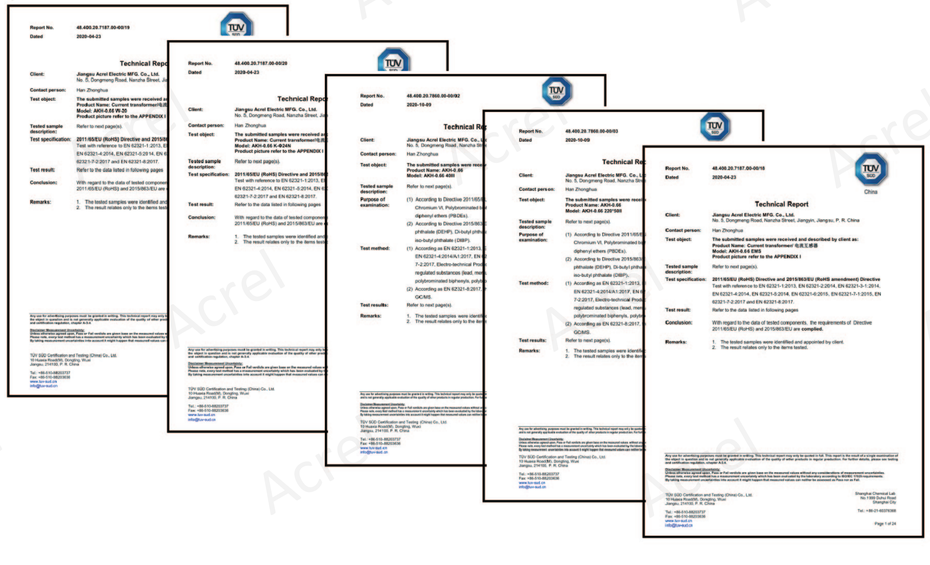


Report No. 48.400.20.7187.00-00/19
Dated 2020-04-23

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 W 20
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7187.00-00/20
Dated 2020-04-23

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received as:
Product Name: Current transformer/电流互感器
Model: AKH-0.66 K-M24
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7860.00-00/02
Dated 2020-10-09

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received as:
Product Name: AKH-0.66
Model: AKH-0.66 400
Tested sample description: Refer to next page(s).
Purpose of examination: (1) According to Directive 2011/65/EU, the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS recast or RoHS 2).
(2) According to Directive 2015/863/EU, the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS recast or RoHS 2).
Test method: (1) According as EN 62321-1:2013, EN 62321-2:2014, EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017, Electro-technical Products - Determination of regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers (PBDEs), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP)).
(2) According as EN 62321-8:2017, Test Methods - Phthalates in polymers by GC/MS.
Test results: Refer to next page(s).
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Report No. 48.400.20.7187.00-00/18
Dated 2020-04-23

China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product Name: Current transformer/ 电流互感器
Model: AKH-0.66 EMS
Product picture refer to the APPENDIX I
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Shanghai Chemical Lab
No.1988 Dahui Road
Shanghai City
Tel.: +86-21-65376388

Page 1 of 24

2.1 Power Sensor

UL of AKH-0.66/K K-φ16/AKH-0.66/K K-φ24(E520314)



CERTIFICATE OF COMPLIANCE

Certificate Number: UL-US-2245552-0
Report Reference: E520314-20221123
Date: 28-Nov-2022

Issued to: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No.31, Hongtu Road, Nanzha Street Jiangyin, Jiangsu 214405
China

This is to certify that representative samples of: NMTR2 - Power Circuit and Motor-mounted Apparatus - Component
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

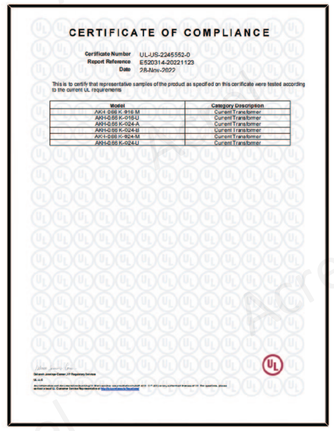
Standard(s) for Safety: UL 508, 18th Ed., Issue Date: 2018-03-30; Revision Date: 2021-07-08

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



CERTIFICATE OF COMPLIANCE

Certificate Number: UL-US-2345552-0
Report Reference: E520314-20221123
Date: 28-Nov-2022

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
AKH-0.66 K-816 M	Current Transformer
AKH-0.66 K-1016 J	Current Transformer
AKH-0.66 K-1024 M	Current Transformer
AKH-0.66 K-624 A	Current Transformer
AKH-0.66 K-824 M	Current Transformer
AKH-0.66 K-624 U	Current Transformer

UL of AKH-0.66/TD(E520314)



CERTIFICATE OF COMPLIANCE

Certificate Number: UL-CA-2125576-1
Report Reference: E520314-20210617
Date: 1-Dec-2021

Issued to: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No.31, Hongtu Road, Nanzha Street Jiangyin, Jiangsu China 214405

This is to certify that representative samples of: NMTR8 - Power Circuit and Motor-mounted Apparatus Certified for Canada - Component
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

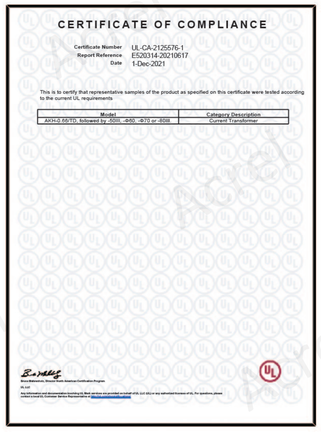
Standard(s) for Safety: CSA C22.2 NO. 14-18, 13th Ed., Issue Date: 2018-03-01

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



CERTIFICATE OF COMPLIANCE

Certificate Number: UL-CA-2125576-1
Report Reference: E520314-20210617
Date: 1-Dec-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
AKH-0.66/TD, followed by -500R, -640, -670 or -808	Current Transformer

Hall Sensor

IEC of AHKC/AHBC/AHLC series



TÜV AUSTRIA CERT GMBH
Certification Body

CERTIFICATE OF CONFORMITY

Certificate-No.: TA 3851902011

Product: Hall Current Sensor
Applicant: Acrel Co., Ltd.
No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
N.S. Beigiang Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trade-mark: AHKC, AHBC, AHLC
Description / Technical Specification: Refer to the test reports
Standard(s) / Directive / Certification basis: IEC 61010-1:2010
IEC 61326-1:2012
Test Report: M0435GC0033201, 18260EC00074001
Comments: N/A

According to the above-stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report of the Certificate of Conformity in order to claim the compliance of the product with the mentioned standard(s).
This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the audited body, because on an economic basis a 100 % control of the production process of the product by TÜV AUSTRIA is not possible. Therefore it does not imply any assessment of the production process of the product by TÜV AUSTRIA. Furthermore it is the advanced certification basis or any change of the relevant materials, components or manufacturing processes. The applicant has to inform TÜV AUSTRIA about any such changes, which may affect the product. Therefore this associated certificate is invalid, if otherwise the General Conditions for Certification of Conformity on a present or amendment date stated concerning a specified product are valid.

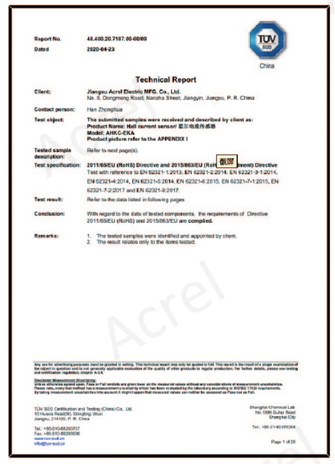
2020-06-17
Date of issue
Ivan Fu Lang, Certification representative

You can verify the validity of this certificate online. A proof of the validity can be obtained on the TÜV AUSTRIA Pin-Internet. The holder of this document is obliged that it does not affect a falsified copy but only complete contained forms without an addition or body's findings. Only the above-mentioned certification body is responsible for this certificate and its validity.

TÜV AUSTRIA CERT GMBH
TÜV AUSTRIA-Platz 1 · 2345 Brunn am Gebirge
www.tuv.at

e-mail: certs@tuv.at
DEQ-TAC-DoC/TAD-605, Tab 60

RoHS of AHKC-EKA



Report No. 48.400.20.7107.00-60/09
Dated 2020-09-23

TÜV SÜD China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 8, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: The submitted samples were received and described by client as:
Product Name: Hall current sensor/ 霍尔电流传感器
Model: AHKC-EKA
Product picture refer to the APPENDIX I

Tested sample description: Refer to next page(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS Amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing conditions on the reverse side.

Disclaimer: Measurement Uncertainty
Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been established by the laboratory according to ANSI/NCSL Z540 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

TÜV SÜD Certification and Testing (China) Co., Ltd.
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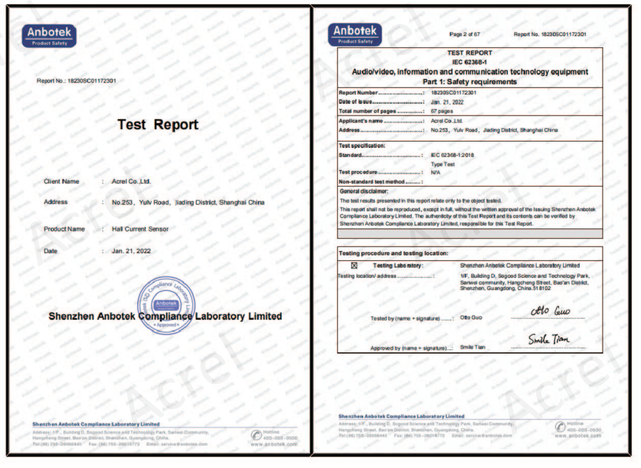
Jiangsu, 214100, P. R. China
Tel.: +86-510-85820202
Fax.: +86-510-85820036
www.tuvsud.cn
info@tuvsud.cn

Shanghai Chemical Lab
no. 1588 Gu'anj Road
Shanghai City
Tel.: +86-21-68129506

Page 1 of 20

IEC of AHKC-EKB



Anbotek Product Safety

Report No.: 182209C01172301

Test Report

Client Name : Acrel Co.,Ltd.
Address : No.253, Yulv Road, Jiading District, Shanghai China
Product Name : Hall Current Sensor
Date : Jan. 21, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited
Address: 1/F., Building D, Biaogod Science and Technology Park, Sanwei Community, Hangcheng Road, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)-755-26503290 Fax:(86)-755-26626101 Email:service@anbotek.com
Hotline 400-003-0500 www.anbotek.com

Anbotek Product Safety

Page 2 of 67 Report No. 182209C01172301

TEST REPORT
IEC 62368-1
Audio/video, information and communication technology equipment
Part 1: Safety requirements

Report Number: 182209C01172301
Date of issue: Jan. 21, 2022
Total number of pages: 67 pages
Applicant's name: Acrel Co.,Ltd.
Address: No.253, Yulv Road, Jiading District, Shanghai China

Test specification:
Standard: IEC 62368-1:2018
Type Test
Test procedure: N/A
Non-standard test method: /

General disclaimer:
The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing Shenzhen Anbotek Compliance Laboratory Limited. The authenticity of this Test Report and its contents can be verified by Shenzhen Anbotek Compliance Laboratory Limited, responsible for this Test Report.

Testing procedure and testing location:
☒ Testing Lab: Shenzhen Anbotek Compliance Laboratory Limited
Testing location/ address: 1/F, Building D, Biaogod Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102
Tested by (name + signature): Otto Guo
Approved by (name + signature): Smile Tian

Shenzhen Anbotek Compliance Laboratory Limited
Address: 1/F., Building D, Biaogod Science and Technology Park, Sanwei Community, Hangcheng Road, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)-755-26503290 Fax:(86)-755-26626101 Email:service@anbotek.com
Hotline 400-003-0500 www.anbotek.com

2.1 Power Sensor

BA Series Electrical Transducer

CE of BA series



CERTIFICATE

ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

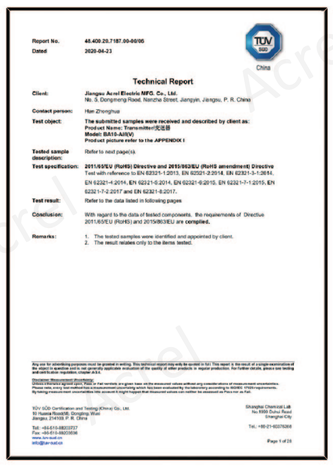
Company Name	: Acrel Co., Ltd.
Company Address	: No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name	: Jiangsu Acrel Electric MFG. Co., Ltd.
Manufacturer Address	: No.5, Dongmeng Road, Nancha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex	: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards	: EN 60668:2013, EN 61010:2010+A1:2019, EN 61326-1:2013
Product Name	: Electrical Measuring Transducers
Report No and Date	: KJD20200501/LVDEMC
Product Brand/Model/Type	: Acrel, BA05-AI(V), BA10-AI(V) , BA20-AI(V), BA50-AI(V), BA05-AI(V)-T, BA10-AI(V)-T, BA20-AI(V)-T, BA50-AI(V)-T, BA5DL-AI(V), BM-DI(S), BM-AI(S), BM-AV(S), BM-TR(S), BM-TR/I, BM-R(S), BM-VR(S), BM-DV(S), BM-DI, BM-DV, BM-DV/I, BM-DI/I, BM-DV/II, BM-DI/II, BM-DV/R, BM-DV/I, BM-DV/VI, BD-AI, BD-AV, BD-AI2, BD-AV2, BD-DI, BD-DV, BD-F, BD-PF, BD-3I3, BD-3V3, BD-3V3, BD-3P, BD-4P, BD-3Q, BD-4Q, BD-3P/Q4, BD-4P/Q4, BD-3E, BD-4E, BD-4EA, AKH-0.66 K-Ψ 10, AKH-0.66 K-Ψ 16, AKH-0.66 K-Ψ 24, AKH-0.66 K-Ψ 36
Certificate Number	: M.2020.206.C4962
Initial Assessment Date	: 10.03.2020
Registration Date	: 11.03.2020
Reissue Date/No	: -
Expiry Date	: 10.03.2025

The validity of the certificate can be checked through www.udem.com.tr . The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the product(s) listed above and UDEM must be notified in case of any changes on the product(s).

Addre ss: Mustafa kemalpaşa 2073 Sokak (Eski 51 Sokak) No:16 Çankaya – Ankara – TURKEY
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
E-mail: info@udemtest.com.tr www.udem.com.tr

UDEM International Certification
Auditing Training Centre Industry and Trade Inc. Co.

RoHS of BA series



Report No. 48.400.20.7187.00-00/05
Dated 2020-04-23

China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nancha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: The submitted samples were received and described by client as:
Product Name: Transmitter/变送器
Model: BA10-AI(V)
Product picture refer to the APPENDIX I

Tested sample description: Refer to next page(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks:
1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and control rules, chapter A.4.1.

Disclaimer / Measurement Uncertainty:
Unless otherwise agreed upon, there is no measurement uncertainty taken into account for the declaration of conformity.

2.1 Power Sensor

CE of BM series



CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.
Company Address : No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Manufacturer Address : No.31, Hongfu Road, Nanzha Street, Jiangyin City Jiangsu Province, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 60668:2013, EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021
Product Name : Sensor
Report No and Date : 78251SC20005401078251IEC20005401
Product Brand/Model/Type : See Annex Page

Certificate Number : M.2022.206.C72901
Initial Assessment Date : 19.04.2022
Registration Date : 20.04.2022
Reissue Date/No : -
Expiry Date : 19.04.2027

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity and following all relevant EC directives. The certificate holder is obliged to inform certification Auditing Training Centre Industry and Trade Co.,Ltd. in which it must be informed upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be kept informed in case of any changes on the product(s).

Address: Mustafa Kemalpaşa 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 (312) 443 03 60 Fax: +90 (312) 443 03 76
E-mail: info@udem003.com.tr www.udem.com.tr

CE

UDEM



CERTIFICATE

ANNEX of Certificate No: M.2022.206.C72901

Product Brand/Model/Type : Acrel: BM200-DVV-811, BM200-DVV-911, BM200-DVV-C22, BM200-DVV-C32, BM200-TRV-811, BM200-TRV-911, BM200-TRV-C22, BM200-TRV-C32, BM200-VRV-811, BM200-VRV-911, BM200-VRV-C22, BM200-VRV-C32, BM100-DVV-811, BM100-DVV-911, BM100-DVV-C22, BM100-DVV-C32, BM100-DVV-C12, BM100-DVV-C42, BM100-TRV-811, BM100-TRV-911, BM100-TRV-C22, BM100-TRV-C32, BM100-TRV-C12, BM100-TRV-C42, BM100-VRV-811, BM100-VRV-911, BM100-VRV-C22, BM100-VRV-C32, BM100-VRV-C12, BM100-VRV-C42, BM100-DVV-C21, BM100-DVV-C31, BM100-DVV-C11, BD100-AVV-A11, BD100-AVV-C12, BD100-AVC-A11, BD100-AVC-C12, BD100-AVC-C32, BD100-AVV-A11, BD100-AVV-C12, BD100-AVV-C32, BD100-AVC-C12, BD100-AVC-C32, BD100-DVV-C12, BD100-DVV-C32, BD100-DVV-A11, BD100-DVV-C11, BD100-DVV-C12, BD100-DVC-C12, BD100-DVC-C32, BD100-AVV-C12, BD100-AVV-C32, BD100-AVC-C12, BD100-AVC-C32, BD100-DVC-C12, BD100-DVC-C32, BD100-DVC-C12, BD100-DVC-C42, BD100-PVC-C12, BD100-PVC-C32, BD100-PVC-C42, BD100-PFV-C12, BD100-PFV-C32, BD100-PFV-C42, BD100-PFC-C12, BD100-PFC-C32, BD100-PFC-C42, BD100-PFV-C12, BD100-PFV-C32, BD100-PFC-C12, BD100-PFC-C32, BD100-PFC-C42, BD100-PFV-C12, BD100-PFV-C32, BD100-PFC-C12, BD100-PFV-C32, BD100-PFV-C42, JDG4-0.5

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity and following all relevant EC directives. The certificate holder is obliged to inform certification Auditing Training Centre Industry and Trade Co.,Ltd. in which it must be informed upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be kept informed in case of any changes on the product(s).

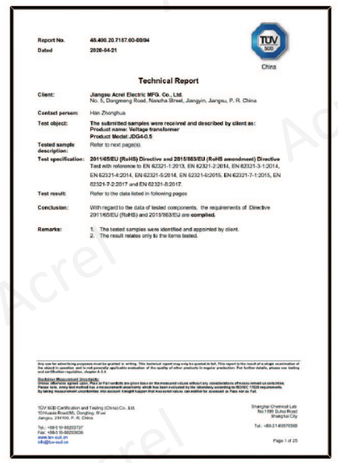
Address: Mustafa Kemalpaşa 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 (312) 443 03 60 Fax: +90 (312) 443 03 76
E-mail: info@udem003.com.tr www.udem.com.tr

CE

UDEM

Voltage Transformer

RoHS of JDG4-0.5



Report No. 48.400.20.7187.00-00/04
Dated 2020-04-21

TÜV SÜD China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: The submitted samples were received and described by client as:
Product name: Voltage transformer
Product Model: JDG4-0.5

Tested sample description: Refer to next page(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the submitted sample(s). Its validity with regard to later production remains the responsibility of either products in regular production. For further details, please see testing and certification regulation, chapter A V.

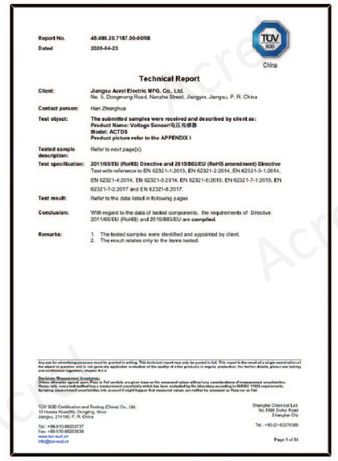
Testing Measurement Uncertainty
Please note: every test result listed has a Full uncertainty as given here on the measured values without any considerations of process relevant uncertainties. Please note, every test result listed has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can method be assessed as Pass not as Fail.

TÜV SÜD Certification and Testing (China) Co., Ltd.
No.1198 Jiuhua Road(W), Dingzhuang Street
Jiangyin, 214105, P. R. China
Tel.: +86 510 86203737
Fax: +86 510 86203636
www.tuv-sud.cn
info@tuv-sud.cn

Shanghai Chemical Lab
No.1198 Jiuhua Road
Shanghai City
Tel.: +86-21-60376566

Page 1 of 25

RoHS of ACTDS series



Report No. 48.400.20.7187.00-00/08
Dated 2020-04-23

TÜV SÜD China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: The submitted samples were received and described by client as:
Product Name: Voltage Sensor/电压传感器
Model: ACTDS
Product picture refer to the APPENDIX I

Tested sample description: Refer to next page(s)

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the submitted sample(s). Its validity with regard to later production remains the responsibility of either products in regular production. For further details, please see testing and certification regulation, chapter A V.

Testing Measurement Uncertainty
Please note: every test result listed has a Full uncertainty as given here on the measured values without any considerations of process relevant uncertainties. Please note, every test result listed has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can method be assessed as Pass not as Fail.

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Shanghai City
Tel.: +86-21-60376566

Page 1 of 34

2.2 Power Monitoring & Controlling

AMC Series Programmable Power Meter

CE of AMC series



CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name	: Acrel Co., Ltd.
Company Address	: No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name	: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Manufacturer Address	: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex	: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards	: EN 61010:2010+A1:2019, EN 61326-1:2013 EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name	: AMC
Report No and Date	: 182505IC100102201182508EC100115501
Product Brand/Model/Type	: Acrel: AMC72-E4/*, AMC72L-E4/*, AMC72-E4/*(8), AMC72L-E4/*(8), AMC96-E4/*, AMC96L-E4/*, AMC96-E4/*(8), AMC96L-E4/*(8), AMC72-E/*, AMC72L-E/*, AMC72-E/*(8), AMC72L-E/*(8), AMC96,
Certificate Number	: M.2021.206.C62904
Initial Assessment Date	: 18.03.2021
Registration Date	: 19.03.2021
Reissue Date/No	: -
Expiry Date	: 18.03.2026

UDEM International Certification
Auditing Training Control Industry and Trade Inc. Co.

Expiry Date validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of "UDEM International Certification Auditing Training Control Industry and Trade Inc. Co." and must be returned on demand. This certificate is valid for the named firm - must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the products stated above and UDEM must be notified in case of any changes in the product(s). Address: Cankaya Mah. Ataturk Bulvari No:191 Cankaya – Ankara – TURKEY
Phone: +90 0312 443 02 90 Fax: +90 0312 443 02 76
E-mail: info@udemtd.com.tr www.udem.com.tr

CE of AMC&AMC(II) series



CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name	: Acrel Co., Ltd.
Company Address	: No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name	: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Manufacturer Address	: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex	: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards	: EN 61010:2010+A1:2019, EN 61326-1:2013 EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name	: AMC
Report No and Date	: 182505IC100102201182508EC100115501
Product Brand/Model/Type	: Acrel: AMC72-E4/*, AMC72L-E4/*, AMC72-E4/*(8), AMC72L-E4/*(8), AMC96-E4/*, AMC96L-E4/*, AMC96-E4/*(8), AMC96L-E4/*(8), AMC72-E/*, AMC72L-E/*, AMC72-E/*(8), AMC72L-E/*(8), AMC96,
Certificate Number	: M.2021.206.C62904
Initial Assessment Date	: 18.03.2021
Registration Date	: 19.03.2021
Reissue Date/No	: -
Expiry Date	: 18.03.2026

UDEM International Certification
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Expiry Date validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of "UDEM International Certification Auditing Training Control Industry and Trade Inc. Co." and must be returned on demand. This certificate is valid for the named firm - must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the products stated above and UDEM must be notified in case of any changes in the product(s). Address: Cankaya Mah. Ataturk Bulvari No:191 Cankaya – Ankara – TURKEY
Phone: +90 0312 443 02 90 Fax: +90 0312 443 02 76
E-mail: info@udemtd.com.tr www.udem.com.tr

EAC of AMC96(L)/AMC72(L) series



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

EAC

Заявитель Индивидуальный предприниматель Солдатов Виктор Германович

Место жительства и адрес места осуществления деятельности: Российская Федерация, Москва, 179164, проспект Мира, дом 150, квартира 99, основной государственный регистрационный номер индивидуального предпринимателя: 316774600499804, номер телефона: +79104567389, адрес электронной почты: Cs133@mail.ru

в лице

заявляет, что Устройство контроля сбора энергии, торговая марка "AMC", модели: AMC72L-E4/KC; AMC72-E4/KC; AMC72L-E4/HC/SC/OI; AMC96L-E4/KC; AMC96-E4/KC; AMC96L-E4/HC/SC/OI;

изготовитель. "Jiangsu Acrel Electrical Manufacturing Co., Ltd." Место нахождения и адрес места осуществления деятельности по изготовлению продукции: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, Китай.

Код ТН ВЭД ЕАЭС 9028309000, Серийный выпуск

соответствует требованиям

ТР ТС 004/2011 "О безопасности низковольтного оборудования", ТР ТС 020/2011 "Электромагнитная совместимость технических средств"

Декларация о соответствии принята на основании

Протокола испытаний № VT00581-2019/12 ИЛВТЕ от 09.12.2019 года, выданного Испытательной лабораторией ООО "ВЭЙТ-Ь ТЕСТ", аттестат аккредитации РОСС RU.31532.ИЛ82, Протокола испытаний № VT00582-2019/12 ИЛВТЕ от 09.12.2019 года, выданного Испытательной лабораторией ООО "ВЭЙТ-Ь ТЕСТ", аттестат аккредитации РОСС RU.31532.ИЛ82.

Схема декларирования 1д

Дополнительная информация

ГОСТ 12.2.007.0-75 "Система стандартов безопасности труда. Изделия электротехнические. Общие требования безопасности"; ГОСТ 30804.3.2-2013 (IEC 61000-3-2:2009) «Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний», разделы 5 и 7; ГОСТ 30804.3.3-2013 (IEC 61000-3-3:2008) «Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при необоблюдении определенных условий подключения. Нормы и методы испытаний», раздел 5. Условия и сроки хранения специальные при нормальных значениях климатических факторов внешней среды. Срок службы (годности) указан в эксплуатационной документации

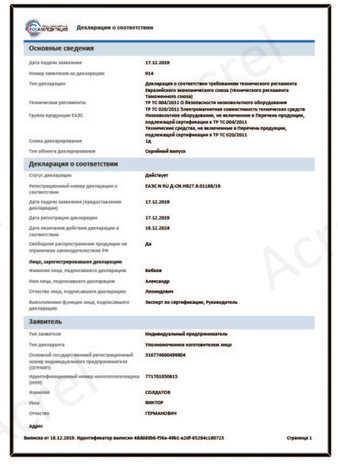
Декларация о соответствии действительна с даты регистрации по 16.12.2024 включительно

Солдатов Виктор Германович

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-CN.ИВ27.В.01188/19

Дата регистрации декларации о соответствии: 17.12.2019

EAC of AMC&AMC(II) series



Декларация о соответствии

Основные сведения

Дата подачи заявления	17.12.2019
Номер заявления на декларацию	014
Тип декларации	Декларация о соответствии требованиям технического регламента Евразийского экономического союза (технического регламента Таможенного союза)
Технические регламенты	ТР ТС 004/2011 О безопасности низковольтного оборудования ТР ТС 020/2011 Электромагнитная совместимость технических средств
Группа продукции ЕАЭС	Низковольтное оборудование, не включенное в Перечень продукции, подлежащей сертификации в ТР ТС 004/2011 Технические средства, не включенные в Перечень продукции, подлежащей сертификации в ТР ТС 020/2011
Схема декларирования	1д
Тип объекта декларирования	Серийный выпуск

Декларация о соответствии

Статус декларации	Действует
Регистрационный номер декларации о соответствии	ЕАЭС N RU Д-CN.ИВ27.В.01188/19
Дата подачи заявления (предоставления декларации)	17.12.2019
Дата регистрации декларации	17.12.2019
Дата окончания действия декларации о соответствии	16.12.2024
Свободная распространение продукции не ограничено законодательством РФ	Да

Лицо, зарегистрировавшее декларацию

Фамилия лица, подписавшего декларацию	Бобков
Имя лица, подписавшего декларацию	Александр
Отчество лица, подписавшего декларацию	Леонидович
Выполняемые функции лица, подписавшего декларацию	Эксперт по сертификации, Руководитель

Заявитель

Тип заявителя	Индивидуальный предприниматель
Тип декларанта	Уполномоченное изготовителем лицо
Основной государственный регистрационный номер индивидуального предпринимателя (ОГРНИП)	316774600499804
Идентификационный номер налогоплательщика (ИНН)	771701050615
Фамилия	СОЛДАТОВ
Имя	ВИКТОР
Отчество	ГЕРМАНОВИЧ
Адрес	

Выписка от 18.12.2019. Идентификатор выписки 4bbb08b6-756a-49b1-a2df-652bfc1d0723 Страница 1

2.2 Power Monitoring & Controlling

IEC of AMC96(L)/AMC72(L) series



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 3855100330

Product: AMC
Applicant: Acrel Co., Ltd.
No.253, Yuhi Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd.
No.5, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China
Type / Models / Tradenames: AMC96L, AMC96, AMC72(L)
Description / extra cat specification: Voltage: 3x(Vnom 3-wire, 3+N(n)= 4-wire)
Voltage: AC 3x57.7/100V...3x277/480V, 3x (Vnom-Vnom)/y (n-wire).
Current: AC 5x(1)/5A, 3x(0)/5A.
Adjustable range class 0.5S
Standard(s) / Product Certification Basis: IEC 62052-11:2003
IEC 62053-22:2003
Test Report: T2010-10555
Comments: N/A

Assembly to the above stated test report (s) the specified product complies with the applicable requirements of the mentioned standard (s). The applicant has to sell the test report and this Certificate of Conformity only in connection with the declaration of conformity following the respective EU Directive(s) and Annex.
This Certificate of Conformity has been granted on the (optional basis) on the basis of testing performed by the approved manufacturer or an approved laboratory (see the subsequent section 2 of the test report by TÜV AUSTRIA CERT GMBH, Deutschstr. 10, 81829 München, Germany) and the assessment of the quality system (see the audit report) carried out by TÜV AUSTRIA. Deviations to the referenced certification items as any change of the design, materials, components or processing, new (e.g. etc.) inspection of all or some of the qualification tests in order for the test report and therefore the calculated certificate to remain valid. Furthermore, the General Conditions for a Certificate of Conformity or a national or international Standard assessing a specific product are valid.

2019-12-11
Date of issue
Head of Dept. Certification representative

This validity of this certificate can be checked through www.tuev-austria.com. The QR mark shown on the right may also be used under the responsibility of the manufacturer with the conversion of EU Declaration of Conformity. The validity of the certificate is only ensured for products bearing the same number as mentioned above. Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above mentioned company is entitled to use the certificate for advertising purposes according to the terms and conditions only covers the product(s) stated above and CEBC must be notified in case of any changes on the product(s).
TÜV AUSTRIA CERT GMBH
Deutschstr. 10, 81829 München, Germany
Tel. +49 89 5791-0, Fax +49 89 5791-2350
www.tuev-austria.com

RoHS of AMC series



Report No. 48.600.20.7157.00-00/01
Dated 2020-04-21

China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nansha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product name: Meter
Product Model:AMC
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd.
10 Huaxia Road(N), Dongjiang, Wuxi
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Tel.: +86-510-88220197
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www.tuv-sud.cn
info@tuv-sud.cn

Shanghai Chemical Lab
No.1562 Dushu Road
Shanghai City
Tel.: +86-21-61909099

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. Who reports the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products is inquire production. For further details, please see Auditing and certification regulations, version 6.2.

Please note: Unless otherwise stated, Parts or Full samples are given based on the measured values without any considerations of measurement uncertainties.
Please note, every listed method has a measurement uncertainty which has been evaluated by the laboratory exceeding to ISO/IEC 17025 measurements.
By taking measurement uncertainties into account it might happen that measured values are neither to assessed as Pass nor as Fail.

Page 1 of 64

PZ Series AC Energy Multifunction Meter

CE of PZ series multi-function energy meter



UDEM

CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully

2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name	: Acrel Co., Ltd.
Company Address	: No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name	: Jiangsu Acrel Electric MFG. Co., Ltd.
Manufacturer Address	: No.5, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex	: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards	: EN 60950-1:2006/A2:2013, EN 61000-3-12:2011 EN 61000-3-3:2013, EN 61000-6-1:2007 EN 61000-6-3:2007/A1:2011/AC:2012
Product Name	: AC Smart Power Analyzers
Product Brand/Model/Type	: Acrel, PZ80L-E4/H2C, PZ80L-E4/K1C, PZ80L-E4/P2C, PZ80L-E4/P3C PZ72L(-)-P3*, PZ72L(-)-P4*, PZ72L(-)-E3*, PZ72L(-)-E4*, PZ80(-)-P3*, PZ80(-)-P4*, PZ80(-)-E3*, PZ80(-)-E4*, PZ96(-)-P3*, PZ96(-)-P4*, PZ96(-)-E3*, PZ96(-)-E4*, PZ42(-)-P3*, PZ42(-)-P4*, PZ42(-)-E3*, PZ42(-)-E4*, (* indicates H, M, C, MD, KC, MC)
Report No and Date	: XJ20190108010LVDEMC
Certificate Number	: M.2018.201.N8104
Initial Assessment Date	: 16.01.2019
Registration Date	: 17.01.2019
Reissue Date/No	: - -
Expiry Date	: 16.01.2024

The validity of the certificate can be checked through www.udem.com.tr. The QR mark shown on the right can only be used under the responsibility of the manufacturer with the conversion of EU Declaration of Conformity. The validity of the certificate is only ensured for products bearing the same number as mentioned above. Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above mentioned company is entitled to use the certificate for advertising purposes according to the terms and conditions only covers the product(s) stated above and UDEM must be notified in case of any changes on the product(s).

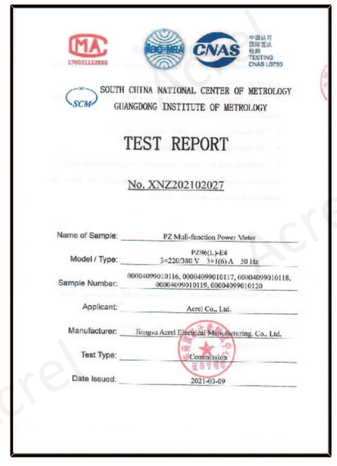
UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

Adalet as. Mutlukent Mahallesi 2073 Sokak (Dali 53 Sokak) No:15 Çankaya – Ankara – TURKEY
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
E-mail: info@udem168.com.tr www.udem.com.tr

CE

UDEM

IEC of PZ series multi-function power meter



SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY

TEST REPORT

No. XNZ202102027

Name of Sample: PZ Mult-function Power Meter
Model / Type: PZ96(L)-E4
3×220/380 V 3×1(6) A 50 Hz
Sample Number: 000040990110116, 000040990110117, 000040990110118, 000040990110119, 000040990110120
Applicant: Acrel Co., Ltd.
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Test Type: Commission
Date Issued: 2021-03-09

2.2 Power Monitoring & Controlling

PZ Series DC Power Analyzer

CE of PZ series DC energy meter



CELAB
Via Miseria snc
84131 Lattine
Italy
celab@celab.com

celab

CERTIFICATE

Certificate Number UCN : 80245851596
Job : 2019-10
Date of Release : 2019-10-03
Certificate valid up to : 2029-07-02

Brand Name : Acrel
Type : PZ series DC programmable intelligent digital display device
Model N : PZ72, PZ72L, PZ80, PZ83L, PZ96, PZ96L, PZ96D, PZ96DL

Manufacturer : Acrel Co., Ltd.
Address : No.253, Yulv Road, Jiading District, Shanghai, China

Standard Used : EN 61326-1:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61010-1:2010

Conclusion :
After inspection of the technical documentation issued by the customer, and in his request, we express our opinion that the product meets the technical requirement of the following directives and standards:
2014/30/EU Electromagnetic compatibility (EMC) 2014/35/EU Low Voltage (LVD)

This opinion is only valid for the directive, the equipment and configuration described, in connection with the test data detailed above and with compliance with all applicable legal requirement for the product.
The following manufacturer documents are inspected:

Presence of Declaration of conformity template	✔ OK
Presence of test report using standards as indicated in the declaration of conformity Test report reference : 8317ACI1001 1807928 SR1/EMC/ BST20061197140615/E (LVD)	✔ OK
Presence of CE symbol in the product label	✔ OK
Presence of instruction manual	✔ OK
Use of old or harmonized standard in the declaration of conformity	✔ OK
Presence of product description in the technical construction file	✔ OK

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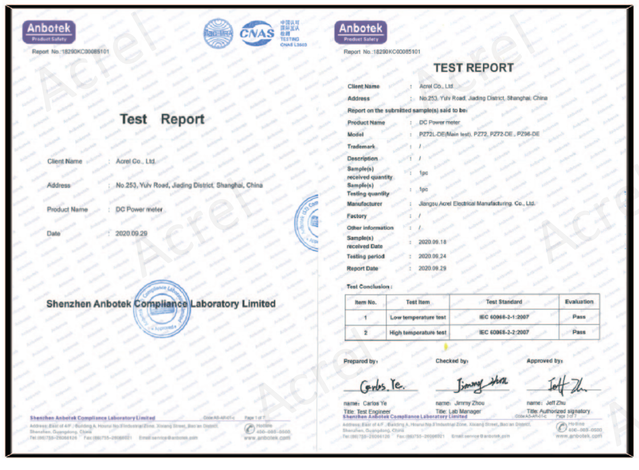
Check the authenticity of this certificate and related information before use in the web site www.celab.com introducing the UCN number in the 'Check document authenticity' area. You will see copy of this certificate and regulation on certificate use. This document is released only for scope showed by laws. Do not use this document without full understanding of its price.

Massimiliano Bertolli
General Manager – CELAB
www.celab.com

www.celab.com

Doc 121 Voluntary Certificate rev 3.31

IEC of PZ72(L)-DE/PZ96-DE



Anbotek Product Safety
Report No.: 18295KC00085101

CNAS 中国合格评定国家认可委员会 CNAS TESTING

Anbotek Product Safety
Report No.: 18295KC00085101

TEST REPORT

Test Report

Client Name : Acrel Co., Ltd.
Address : No.253, Yulv Road, Jiading District, Shanghai, China
Product Name : DC Power meter
Date : 2020.09.29

Shenzhen Anbotek Compliance Laboratory Limited

Client Name : Acrel Co., Ltd.
Address : No.253, Yulv Road, Jiading District, Shanghai, China
Report on the submitted sample(s) said to be:
Product Name : DC Power meter
Model : PZ72L-DE(Main test), PZ72, PZ72-DE , PZ96-DE
Trademark : /
Description : /
Sample(s) received quantity : 1pc
Sample(s) Testing quantity : 1pc
Manufacturer : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Factory : /
Other information : /
Sample(s) received Date : 2020.09.18
Testing period : 2020.09.24
Report Date : 2020.09.29

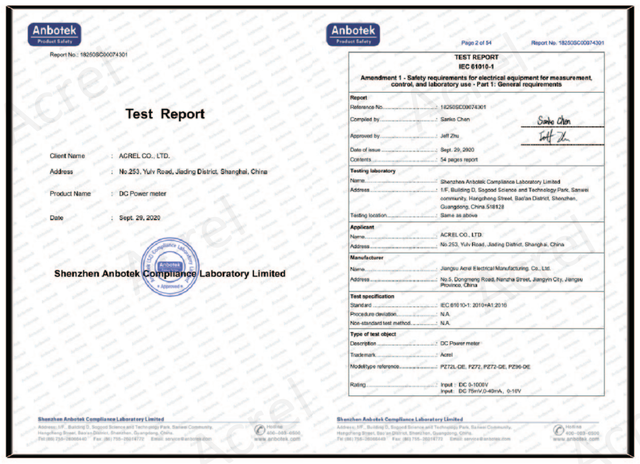
Test Conclusion :

Item No.	Test Item	Test Standard	Evaluation
1	Low temperature test	IEC 60068-2-1:2007	Pass
2	High temperature test	IEC 60068-2-2:2007	Pass

Prepared by : Carlos Ye — name: Carlos Ye, Title: Test Engineer
Checked by : Jimmy Zhou — name: Jimmy Zhou, Title: Lab Manager
Approved by : Jeff Zhu — name: Jeff Zhu, Title: Authorized signatory

Shenzhen Anbotek Compliance Laboratory Limited

IEC of PZ72(L)-DE/PZ96-DE



Anbotek Product Safety
Report No.: 18295EC00099301

Page 2 of 54

TEST REPORT
IEC 61010-1
Amendment 1 - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Test Report

Client Name : ACREL CO., LTD.
Address : No.253, Yulv Road, Jiading District, Shanghai, China
Product Name : DC Power meter
Date : Sept. 29, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Report : 18295EC00074301
Compiled by : Sanko Chan
Approved by : Jeff Zhu
Date of issue : Sept. 29, 2020
Contents : 54 pages report

Testing laboratory
Name : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Baoan District, Shenzhen, Guangdong, China 518126
Testing location : Same as above

Applicant
Name : ACREL CO., LTD
Address : No.253, Yulv Road, Jiading District, Shanghai, China

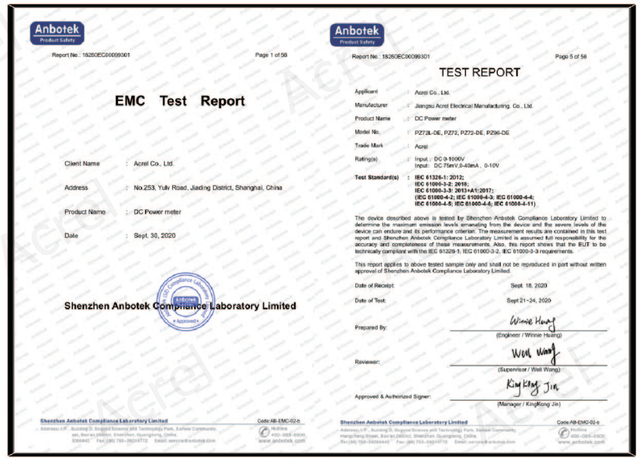
Manufacturer
Name : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address : No.3, Dongmeng Road, Nanshe Street, Jiangyin City, Jiangsu Province, China

Test specification
Standard : IEC 610 10-1: 2010+A1:2016
Procedure deviation : N.A.
Non-standard test method : N.A.

Type of test object
Description : DC Power meter
Trademark : Acrel
Model/type reference : PZ72L-DE, PZ72, PZ72-DE, PZ96-DE
Rating : Input : DC 0-1000V
Input : DC 75mV,0-40mA, 0-10V

Shenzhen Anbotek Compliance Laboratory Limited

IEC of PZ72(L)-DE/PZ96-DE



Anbotek Product Safety
Report No.: 18295EC00099301

Page 1 of 56

EMC Test Report

Client Name : Acrel Co., Ltd.
Address : No.253, Yulv Road, Jiading District, Shanghai, China
Product Name : DC Power meter
Date : Sept. 30, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Anbotek Product Safety
Report No.: 18295EC00099301

Page 5 of 56

TEST REPORT

Applicant : Acrel Co., Ltd.
Manufacturer : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Product Name : DC Power meter
Model No. : PZ72L-DE, PZ72, PZ72-DE, PZ96-DE
Trade Mark : Acrel
Rating(s) : Input : DC 0-1000V
Input : DC 75mV,0-40mA, 0-10V
Test Standard(s) : IEC 61326-1: 2012;
IEC 61000-3-2: 2018;
IEC 61000-3-3: 2013+A1:2017;
(IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4;
IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-11)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the IEC 61326-1, IEC 61000-3-2, IEC 61000-3-3 requirements.

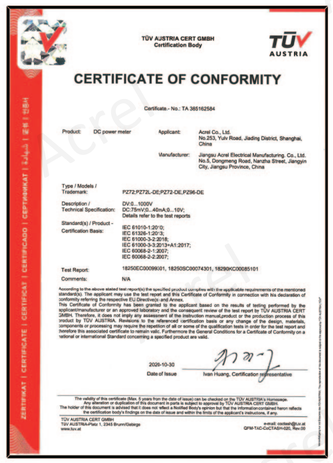
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Receipt : Sept. 18, 2020
Date of Test : Sept 21~24, 2020
Prepared By : (Engineer / Winnie Huang)
Reviewer : (Supervisor / Well Wang)
Approved & Authorized Signer : (Manager / KingKong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

2.2 Power Monitoring & Controlling

IEC of PZ72(L)-DE/PZ96-DE



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 365162584

Product: DC power meter
Applicant: Acrel Co., Ltd.
No.253, Yuyi Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: PZ72,PZ72L-DE,PZ72-DE,PZ96-DE
Description / Technical Specification: DV:0...1000V
DC:75mV/0...40mA,0...10V;
Details refer to the test reports
Standard(s) / Product -
Certification Basis:
IEC 61010-1:2010;
IEC 61326-1:2012;
IEC 61000-3-2:2018;
IEC 61000-3-3:2013+A1:2017;
IEC 60068-2-1:2007;
IEC 60068-2-2:2007;
Test Report: 182500C00009I01, 182500C00074301, 18299IC00085101
Comments: N/A

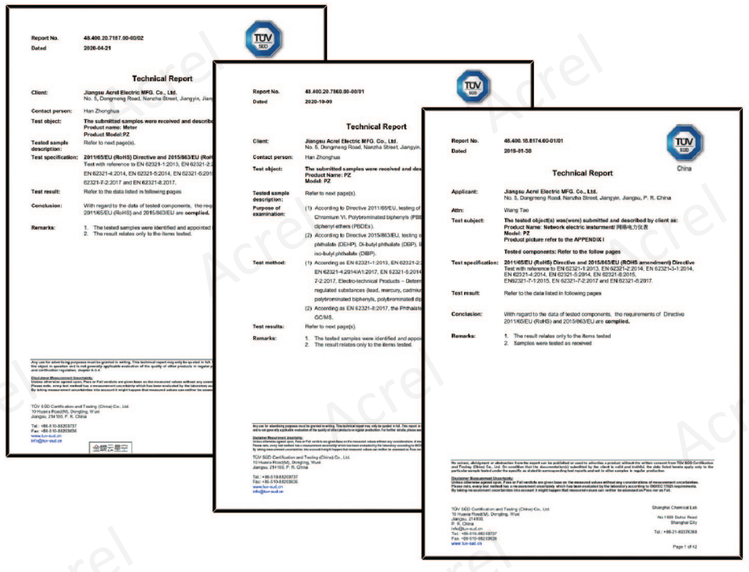
According to the above stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.
This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory and the consequent review of the test report by TÜV AUSTRIA CERT GMBH. The applicant is obliged to inform TÜV AUSTRIA CERT GMBH about any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity on a national or international Standard concerning a specified product are valid.

2020-10-30
Date of Issue
Ivan Huang, Certification representative

The validity of this certificate (Max. 5 years from the date of issue) can be checked on the TÜV AUSTRIA's Homepage.
Any alteration or duplication of this document in parts is subject to approval by TÜV AUSTRIA CERT GMBH.
The holder of this document is advised that it does not reflect a Notified Body's opinion but that the information contained herein reflects the certification body's findings on the date of issue and within the limits of the applicant's instructions, if any.

TÜV AUSTRIA CERT GMBH
TÜV AUSTRIA-Platz 1, 2345 Brunn/Gebirge
www.tuv.at
e-mail: cert-ce@tuv.at
QFM-TAC-CeCTA5A+025_Rev.00

RoHS of PZ series



Report No. 48.400.20.7167.00-00/02
Dated 2020-04-21

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nancha Street, Jiangyin, Jian
Contact person: Han Zhonghua
Test object: The submitted samples were received and describe
Product name: Meter
Product Model: PZ
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoH
Test with reference to EN 62321-1:2013, EN 62321-2:2
EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:201
62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requ
2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed
2. The result relates only to the items tested.

Report No. 48.400.20.7860.00-00/01
Dated 2020-10-09

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nancha Street, Jiangyin,
Contact person: Han Zhonghua
Test object: The submitted samples were received and des
Product Name: PZ
Model: PZ
Tested sample description: Refer to next page(s).
Purpose of examination: (1) According to Directive 2011/65/EU, testing of
Chromium VI, Polybrominated biphenyls (PBB
diphenyl-ethers (PBDEs).
(2) According to Directive 2015/863/EU, testing o
phthalate (DEHP), Di-butyl phthalate (DBP), B
iso-butyl phthalate (DIBP).
Test method: (1) According as EN 62321-1:2013, EN 62321-2:
EN 62321-4:2014/A1:2017, EN 62321-5:2014
7-2:2017, Electro-technical Products – Determ
regulated substances (lead, mercury, cadmium
polybrominated biphenyls, polybrominated dip
(2) According as EN 62321-8:2017, the Phthalates
GC/MS.
Test results: Refer to next page(s).
Remarks: 1. The tested samples were identified and appoi
2. The result relates only to the items tested.

Report No. 48.400.18.8174.60-01/01
Dated 2018-01-30
China

Technical Report

Applicant: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nancha Street, Jiangyin, Jiangsu, P. R. China
Attn: Wang Tao
Test subject: The tested object(s) was(were) submitted and described by client as:
Product Name: Network electric instrument 网络电力仪表
Model: PZ
Product picture refer to the APPENDIX I
Tested components: Refer to the follow pages
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (ROHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.
Remarks: 1. The result relates only to the items tested
2. Samples were tested as received

Shanghai Chemical Lab
No.1988 Dahui Road
Shanghai City
Tel.: +86-21-60336388

Page 1 of 12

■ ARD Series Smart Motor Protector

CE of ARD3T series



CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY

Certificate No.: CE200305006763

Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 YuLv Road, JiaDing District, ShangHai City,P.R.China
Type/Model: ARD3T;
Technical data: UI:660V; Uimp:4kV;
Ue:AC380V/660V;Ie:0.4-2.0A,1.6-6.3A,6.3-25A,25-100A,63-250A;TripplingclassTripping class: 10A,10,20,30; IP20; 2P:Attached auxiliary contacts:4NO/0.6A,1.5:250VUimp:4kVAC-15: Ue/Ie:220V/3A.

This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-20200308-S-A,03601-A-20200308-S-B, the submitted sample(s) of the above item complies with:
EN 60947-4-1:2010 + A1:2012
and fulfills testing requirements of the European Directive:
2014/35/EU

Valid from: Mar.30,2020
Valid until: Mar.30,2023
President:
Lu Mei

CHINA QUALITY CERTIFICATION CENTRE
Section 9,No.188,Konalhuan XIlu, BeiJing 100070 P.R.China
http://www.cqc.com.cn

CE 0010537

CE of ARD2(L)series



CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY

Certificate No.: CE200305006750

Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 YuLv Road, JiaDing District, ShangHai City,P.R.China
Type/Model: ARD2, ARD2L;
Technical data: UI:380V; Uimp:4kV;Ue:AC380V;Ie: 0.4~1.6A,1.6~6.3A,6.3~25A,25~100A,63~250A; Tripping class: 10A,10,20,30; IP20; 2P:Attached auxiliary contacts:2NO,2NC;Ith:6A,UI:250VUimp:4kVAC-15: Ue/Ie:220V/3A.

This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-20200308-S-A,03601-A-20200308-S-B, the submitted sample(s) of the above item complies with:
EN 60947-4-1:2010 + A1:2012
and fulfills testing requirements of the European Directive:
2014/35/EU

Valid from: Mar.30,2020
Valid until: Mar.30,2023
President:
Lu Mei

CHINA QUALITY CERTIFICATION CENTRE
Section 9,No.188,Konalhuan XIlu, BeiJing 100070 P.R.China
http://www.cqc.com.cn

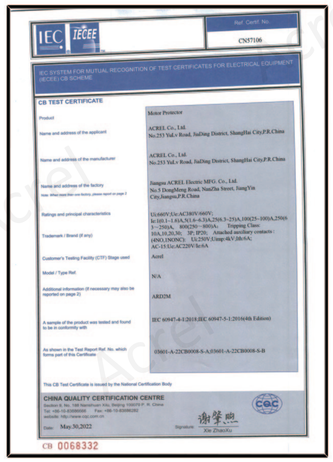
CE 0010535

2.2 Power Monitoring & Controlling

CE of ARD2M series


CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY
Certificate No.: CE220305007687
Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 YuLv Road, JiaDing District, ShangHai City,P.R.China
Type/Model: ARD2M
Technical data: Ui:660V,Uie:AC380V/660V;Ie:1(0.1~1.6)A,5(1.6~6.3)A,25(6.3~25)A,100(25~100)A,250(63~250)A,800(250~800)A; Tripping Class:10A,10,20,30;3P; IP20;Attached auxiliary contacts : (4NO,1NONC)/Ui:250V,Uimp:4kV;Ith:6A;AC-15/Ue:AC220V/Ie:6A
This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-22D0016-S-A,03601-A-22D0016-S-B, the submitted sample(s) of the above item complies with:
EN IEC 60947-4-1:2019;EN60947-5-1:2017
and fulfills testing requirements of the European Directive:
2014/35/EU
This report is to verify the compliance of the sample submitted by thismanufacturer only, and does not include the manufacturing process. Users shall affix the mark in accordance with the related legislation.
Valid from: May,30,2022
Valid until: May,29,2025
SIGNATURE: 谢肇煦
CHINA QUALITY CERTIFICATION CENTRE
CE 0012141

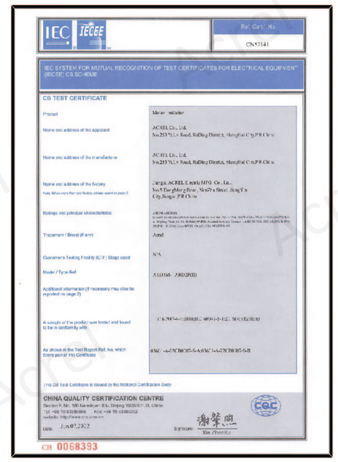
CB of ARD2M series


IEC IECEE
Ref. Certif. No.
CN37106
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME
CB TEST CERTIFICATE
Product: Motor Protector
Name and address of the applicant: ACREL Co., Ltd. No.253 YuLv Road, JiaDing District, ShangHai City,P.R.China
Name and address of the manufacturer: ACREL Co., Ltd. No.253 YuLv Road, JiaDing District, ShangHai City,P.R.China
Name and address of the factory: Jiangsu ACREL Electric MFG. Co., Ltd. No.5 DongMeng Road, NanZha Street, JiangYin City,Jiangsu,P.R.China
Ratings and principal characteristics: Ui:660V;Uie:AC380V/660V; Ie:1(0.1~1.6)A,5(1.6~6.3)A,25(6.3~25)A,100(25~100)A,250(63~250)A; 800(250~800)A; Tripping Class: 10A,10,20,30; 3P; IP20; Attached auxiliary contacts : (4NO,1NONC); Ui:250V,Uimp:4kV;Ith:6A; AC-15/Ue:AC220V/Ie:6A
Trademark / Brand (if any): Acrel
Customer's Testing Facility (CTF) Stage used: N/A
Model / Type Ref.: ARD2M
Additional information (if necessary may also be reported on page 2)
A sample of the product was tested and found to be in conformity with: IEC 60947-4-1:2018;IEC 60947-5-1:2016(4th Edition)
As shown in the Test Report Ref. No. which forms part of this Certificate: 03601-A-22CB0008-S-A,03601-A-22CB0008-S-B
This CB Test Certificate is issued by the National Certification Body
CHINA QUALITY CERTIFICATION CENTRE
Date: May,30,2022
Signature: 谢肇煦
CB 0068332

CE of ARD3M,ARD2F(II) series


CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY
Certificate No.: CE220305007702
Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 YuLv Road, JiaDing District, Shanghai City,P.R.China
Type/Model: ARD3M，ARD2F(II)
Technical data: ARD3M,ARD2F(II) Ui:660V;Uie:AC380V/660V;Ie:1(0.1~1.6)A,5(1.6~6.3)A,25(6.3~25)A,100(25~100)A,250(63~250)A,800(250~800)A; Tripping Class: 10, 20, 30; Poles:3P;IP20; Attached Auxiliary Contacts : ARD3M:3NO，NC;ARD2F(II):4NO，1NONC; Ui:250V;Uimp:4kV;Ith:6A;AC-15/Ue:AC220V/Ie:6A
This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-22CB0117-S-A,03601-A-22D0117-S-B, the submitted sample(s) of the above item complies with:
EN IEC 60947-4-1:2019;EN60947-5-1:2017
and fulfills testing requirements of the European Directive:
2014/35/EU
This report is to verify the compliance of the sample submitted by thismanufacturer only, and does not include the manufacturing process. Users shall affix the mark in accordance with the related legislation.
Valid from: Jun.07.2022
Valid until: Jun.06.2025
SIGNATURE: 谢肇煦
CHINA QUALITY CERTIFICATION CENTRE
CE 0012165

CB of ARD3M,ARD2F(II) series


IEC IECEE
Ref. Certif. No.
CN37141
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME
CB TEST CERTIFICATE
CHINA QUALITY CERTIFICATION CENTRE
CB 0068393

2.2 Power Monitoring & Controlling

CE of ARD/ARD2F/ARD3 series


CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY
Certificate No.: CE200305006767
Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 Yuli.e Road, JiaDing District, Shanghai City,P.R.China
Type/Model: ARD2F、ARD3;
Technical data: Ui:660V; Uimp:4kV; Ue:AC380V/660V;Ie: 0.4-1.6A,1.6-6.3A,6.3-25A,25-100A,63-250A; Tripping class: 10A,10,20,30; IP20; 3P;Attached auxiliary contacts: 4NO,1NC,B(v)6A,U:250V;Uimp:4kV,AC-15: Ue/Ie:220V/6A.
This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-20IO0007-S, the submitted sample(s) of the above item complies with:
EN 60947-4-1:2010 + A1:2012
and fulfills testing requirements of the European Directive:
2014/35/EU
Valid from: Mar.30,2020
Valid until: Mar.30,2023
President:
Lu Mei
CHINA QUALITY CERTIFICATION CENTRE
Section 9,No.188,Nansihuan XIlu, Beijing 100070 P.R.China
http://www.cqc.com.cn
CE 0010538

ALP Series Smart Protection Device

CE of ALP300-100


CHINA QUALITY CERTIFICATION CENTRE
CERTIFICATE OF CONFORMITY
Certificate No.: CE203605006751
Product: Motor Protector
Applicant: ACREL Co., Ltd.
No.253 Yul.e Road, JiaDing District, Shanghai City,P.R.China
Type/Model: ALP300-100;
Technical data: Ui:380V; Uimp:4kV; Ue:AC380V;Ie: 25~100A;Tripping class: 10A,10,20,30; IP20; 3P;Attached auxiliary contacts:2NO/NC Ith:5A,U:250V,Uimp:4kV,AC-15: Ue/Ie:220V/5A.
This is to certify that, on the basis of the tests undertaken as per Report No. 03601-A-20IO0005-S-A, 03601-A-20IO0005-S-B, the submitted sample(s) of the above item complies with:
EN 60947-4-1:2010 + A1:2012
and fulfills testing requirements of the European Directive:
2014/35/EU
Valid from: Mar.30,2020
Valid until: Mar.30,2023
President:
Lu Mei
CHINA QUALITY CERTIFICATION CENTRE
Section 9,No.188,Nansihuan XIlu, Beijing 100070 P.R.China
http://www.cqc.com.cn
CE 0010536

WHD Series Temperature &Humidity Controller

CE of WHD10R-11


UDEM
CERTIFICATE
ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES
Technical file of the company mentioned below has been observed and audit has been completed successfully:
2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes
Company Name: Acrel Co.,Ltd.
Company Address: No 253, Yuli Road, Jiading District, Shanghai, China
Manufacturer Name: Jiangsu Acrel Electric MFG.Co, Ltd.
Manufacturer Address: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards: EN 62368-1:2014+A11:2017, EN 61000-3-3:2013, EN 61000-6-1:2007 EN 61000-6-3:2007/A1:2011/AC:2012
Product Name: Temp & Humidity Controller
Report No and Date: : X2201300600SLTDEMC
Product Brand/Model/Type: : Acrel/WHD10R-11, WHD10R-11/J, WHD10R-11/C
Certificate Number: M.2018.2013#0705
Initial Assessment Date: : 07. 09. 2018
Registration Date: : 10. 09. 2018
Revison Date/No: : --
Expiry Date: 09.09.2023
UDEM International Certification and Trade Inc. Co
UDEM

CE of WHD48-11


UDEM
CERTIFICATE
ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES
Technical file of the company mentioned below has been observed and audit has been completed successfully:
2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes
Company Name: Acrel Co.,Ltd.
Company Address: No 253, Yuli Road, Jiading District, Shanghai, China
Manufacturer Name: Jiangsu Acrel Electric MFG.Co, Ltd.
Manufacturer Address: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex: 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive
Related Standards: EN 60950-1:2006/A2:2013, EN 61000-3-12:2011 EN 61000-3-3:2013, EN 61000-6-1:2007 EN 61000-6-3:2007/A1:2011/AC:2012
Product Name: Temp&Humidity Controller
Report No and Date: : X2201301000ZLTDEMC
Product Brand/Model/Type: : Acrel: WHD48-11, WHD48-11/J, WHD48-11/C, WHD48-11/W
Certificate Number: M.2018.2013#0105
Initial Assessment Date: : 16. 01. 2018
Registration Date: : 17. 01. 2018
Revison Date/No: : --
Expiry Date: 16.01.2024
UDEM International Certification and Trade Inc. Co
UDEM

2.2 Power Monitoring & Controlling

CE of WHD Series


CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.
Company Address : No. 253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Manufacturer Address : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive; 2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 61010-2-010+A1:2019, EN 61326-1:2013, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name : Temperature &Humidity Controller
Report No and Date : 152305Q00094F/ 152308E00101Z3
Product Brand/Model/Type : Acrel; WHD, WHD46, WHD48, WHD72, WHD96, WHD108, WHD208, WHD72-22, WHD72-11, WHD48-11, WHD46-11, WHD46-22, WHD108-11, WHD108-22, WHD96-11, WHD208-22

Certificate Number : M.2020.206.C00555
Initial Assessment Date : 23. 11. 2020
Registration Date : 25. 11. 2020
Reissue Date/No : -
Expiry Date : 25.11.2025

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.org.tr. The QR mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives.This certificate cancels the preceding UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. Unless otherwise stated, the above named firm must keep a copy of this certificate for 10 years from the registration of certificates. This certificate only covers the product(s) stated above and UDEM. must be noticed in case of any changes on the product(s).

Address: Mevlüdiye Mahallesi 2071 Sokak (Eski: 91 Sokak) No:18 Çankaya - ankara - TURKEY
Phone: +90 (312) 811 55 90 Fax: +90 (312) 811 55 78
E-mail: info@udemtest.com.tr www.udem.org.tr

ARTM Series Wireless Temperature Monitor

CE of ARTM-8


CERTIFICATE

ATTESTATION CERTIFICATE
OF MACHINERY AND ELECTROMAGNETIC
COMPATIBILITY DIRECTIVES

Technical file of the company mentioned below has been observed

2006/42/EC Machinery Directive and 2014/30/EU Electromagnetic Compatibility Directive have been taken as references for these processes

Company Name : Acrel Co.,Ltd.
Company Address : No. 253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electrical Manufacturing Co.,Ltd.
Manufacturer Address : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex : 2006/42/EC Machinery Directive; 2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 61010-1:2010+A1:2019, EN 61326-1:2013, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name : ARTM Multi-Channel Temperature Controller
Report No and Date : SIZ20SIC00031301/SIZ20SIC00009301
Product Brand/Model/Type : Acrel; ARTM-8, ARTM-8/2C

Certificate Number : M.2020.206.C8071
Initial Assessment Date : 29. 07. 2020
Registration Date : 30. 07. 2020
Reissue Date/No : -
Expiry Date : 29.07.2025

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

CE-RED of ATE ATC series


MiCOM Labs

CERTIFICATE of EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE
DONNIT-EU/ 8 Jun 2021 / Rev A
Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
Wireless Temperature Sensor
Approval Holder Name:
Acrel Co., Ltd.

CE

Gordon Hurst, Product Certifier
The Certificate is issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

CE-RED of AHE100


MiCOM Labs

CERTIFICATE of EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE
DONNIH-EU/ 13 Dec 2022 / Rev A
Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
Wireless Sensor
Approval Holder Name:
Acrel Co., Ltd.

CE

Gordon Hurst, Product Certifier
The Certificate is issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

ASJ Series Residual Current Relay

CE of ASJ series


CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co.,Ltd.
Company Address : No. 253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electrical Manufacturing Co.,Ltd.
Manufacturer Address : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive; 2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 60255-27:2014, EN 60947-1:2007+A1:2011+A2:2014; EN 60947-4-1:2010+A1:2012, EN 60255-26:2013; EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name : Residual-Current Operated Relay
Report No and Date : SIZ20SIC00042301/SIZ20SIC00014601
Product Brand/Model/Type : Acrel; ASJ10, ASJ10-LD1A, ASJ10-LD1C, ASJ20, ASJ20-LD1A, ASJ20-LD1C

Certificate Number : M.2020.206.C9533
Initial Assessment Date : 09. 10. 2020
Registration Date : 12. 10. 2020
Reissue Date/No : -
Expiry Date : 11.10.2025

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.org.tr. The QR mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives.This certificate cancels the preceding UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. Unless otherwise stated, the above named firm must keep a copy of this certificate for 10 years from the registration of certificates. This certificate only covers the product(s) stated above and UDEM. must be noticed in case of any changes on the product(s).

Address: Mevlüdiye Mahallesi 2071 Sokak (Eski: 91 Sokak) No:18 Çankaya - ankara - TURKEY
Phone: +90 (312) 811 55 90 Fax: +90 (312) 811 55 78
E-mail: info@udemtest.com.tr www.udem.org.tr

2.2 Power Monitoring & Controlling

ARTU series remote terminal unit

CE of ARTU100



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220911311-V2

Product: ARTU Series of Remote Terminal Units

Applicant: Acrel Co., Ltd.
No.253, Yuyi Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.3, Jiangnan Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: ARTU, ARTU-30, ARTU-K36, ARTU-K8, ARTU-K16, ARTU-K32, ARTU-J16, ARTU-P8, ARTU-P16, ARTU-P32, AR*U-V-X*, AH-LU100*, AH-KU100-L16*, ARTU100-K32* (* can be CE, MA94, MK16, MJ16, MKA16, MPOW)

Trademark / Brand: Acrel

Description / Technical Specification: 85V~265VAC, 50Hz, 10VA

EU Directive: 2014/53/EU

Relevant Standard(s) / Specification(s): EN IEC 62368-1:2020+A11:2020

Test Report: 78251SC20016101

Comments: None

According to the above stated test record(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the consequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the instruction manual, product or the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Ver ification by itself does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-09-19
Date of Issue

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 120, Orient Century Building, No.345 Xian Xia Road, Shanghai, P.R. China

e-mail: office@cn.tuvasitria.com
TASHVGC-F01, Rev.00



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220911311-V4

Product: ARTU Series of Remote Terminal Units

Applicant: Acrel Co., Ltd.
No.253, Yuyi Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.3, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: ARTU, ARTU-30, ARTU-K36, ARTU-K8, ARTU-K16, ARTU-K32, ARTU-J16, ARTU-P8, ARTU-P16, ARTU-P32, ARTU-M-32, ARTU100*, ARTU-100-L16*, ARTU100-K32* (* can be CE, MA94, MK16, MJ16, MKA16, MPOW)

Trademark / Brand: Acrel

Description / Technical Specification: 85V~265VAC, 50Hz, 10VA

EU Directive: 2014/30/EU

Relevant Standard(s) / Specification(s): EN 61326-1:2013
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019

Test Report: 78261EC20600501

Comments: None

According to the above stated test record(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the consequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the instruction manual, product or the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Ver ification by itself does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-08-12
Date of Issue

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

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e-mail: office@cn.tuvasitria.com
TASHVGC-F01, Rev.00

AM series middle voltage protection relay

CE of AM5 series



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220410341-V1

Product: Feeder Line Protection measuring control device

Applicant: Acrel Co., Ltd.
No.253, Yuyi Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: AM5-F, AM5-T, AM5-M, AM5-U1, AM5-C, AM5-B, AM5-DB, AM5SE-F, AM5SE-T, AM5SE-M, AM5SE-B, AM5SE-C, AM5SE-D2, AM5SE-TB, AM5SE-UB, AM5SE-MD, AM5SE-D3, AM5SE-K, AM4-U1, AM4-I, AM5SE-U, AM5SEI, AM2SE-V, AM2SE-H

Trademark / Brand: Acrel

Description / Technical Specification: Control power supply: AC/DC 220-240V
Rated voltage: 100V,
Rated current: 5A

EU Directive: 2014/30/EU

Relevant Standard(s) / Specification(s): EN IEC 61326-1: 2021
EN IEC 61000-3-2: 2019
EN 61000-3-3: 2013+A1: 2019

Test Report: 78291EC20002501

Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the consequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the instruction manual, product or the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Ver ification by itself does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-05-12
Date of Issue

Ivan Huang

CE Mark may only be affixed to this product after fulfillment o f all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 120, Orient Century Building, No.345 Xian Xia Road, Shanghai, P.R. China

e-mail: office@cn.tuvasitria.com
TASHVGC-F01, Rev.00



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220410342-V1

Product: Feeder Line Protection measuring control device

Applicant: Acrel Co., Ltd.
No.253, Yuyi Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: AM5-F, AM5-T, AM5-M, AM5-U1, AM5-C, AM5-B, AM5-DB, AM5SE-F, AM5SE-T, AM5SE-M, AM5SE-B, AM5SE-C, AM5SE-D2, AM5SE-TB, AM5SE-UB, AM5SE-MD, AM5SE-D3, AM5SE-K, AM4-U1, AM4-I, AM5SE-U, AM5SEI, AM2SE-V, AM2SE-H

Trademark / Brand: Acrel

Description / Technical Specification: Control power supply: AC/DC 220-240V
Rated voltage: 100V,Rated current: 5A

EU Directive: 2014/35/EU

Relevant Standard(s) / Specification(s): EN 61010-1:2010+A1:2019
EN50263:2-7:2014

Test Report: 18230SC20012901

Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the consequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the instruction manual, product or the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Ver ification by itself does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-05-12
Date of Issue

Ivan Huang

CE Mark may only be affixed to this product after fulfillment o f all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 120, Orient Century Building, No.345 Xian Xia Road, Shanghai, P.R. China

e-mail: office@cn.tuvasitria.com
TASHVGC-F01, Rev.00

2.3 Energy Management

APM Series Network Power Meter

CE of APM800 series


TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Certificate - No.: TASH-220913974-V1

Applicant: Name: Acrel Co., Ltd. Address: No.253, Yulv Road, Jiading District, Shanghai, China

Manufacturer: Name: Acrel Electrical Manufacturing Co., Ltd. Address: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: APM, APM120, APMV120-D10, -E10, APM120-D20, APM120-D30, APM520-*, APM520-D10-*, APM520-E10-*, APM520-D20-*, APM120-D30-*, APM510, APM510-D10, APM510-D10, APM519-D20, APM519-D30, APM810-D, APM810-*, APM810-D10-*, APM810-D20-*, APM810-D30-*, (*indicates: C,L, D9 , 4G, NB, LX , 1, L, S, X, 2C, 2M, 5E, CP) , APM800, APM801, APM810, APM820, APM822*, APM850*, APM870*, APM880*, (*includes: V1N, 5E, Y, M11, M12, M13, M14, M15, M16, M17, M18, M19, M1A, M1B, M1C, M1D, M1E, M1F, M1G, M1H, I, APM12-4M, APM12-5M, APM12-6M, APM12-7M, APM12-8M, APM12-9M, APM12-AM, APM12-BM, APM12-CM, APM12-DM, APM12-EM, APM12-FM, APM12-GM, APM12-HM, APM12-JM, APM12-KM, APM12-LM, APM12-MM, APM12-NM, APM12-PM, APM12-QM, APM12-RM, APM12-SM, APM12-TM, APM12-UM, APM12-VM, APM12-WM, APM12-XM, APM12-YM, APM12-ZM, APM12-1M, APM12-2M, APM12-3M

2.3 Energy Management

CE of DDS1352/DDSD1352/ADL10-E/ADL100-ET/ADL100-EY



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220913974-M5

Product: Three-Phase Electric Meter

Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co.,Ltd. No.5, Dongmeng Road, Nanzha Street Jiangyin City, Jiangsu Province, China

Type / Models: DTS1352, DTSF1352, DTSY1352, DTSD1352-C, DTSD1352-F, DTSE1352-FC, DTSD1352-FZC, DTSD1352-HFC, DTSY1352-NK, DTSY1352-Z, DTSY1352-RF

Trademark / Brand: Acrel

Description / Technical Specification: Measuring Voltage: AC 3x230/400V; Measuring Current: AC 3x1(6)A,3x10(40)A; Freq:50Hz

EU Directive: 2014/35/EU

Relevant Standard(s) / Specification(s): EN 61010-1:2010+A1: 2019

Test Report: 2021052200004501

Comments: None

According to the above stated test report(s), the samples of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. It is applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of tests performed by the applicant / manufacturer or an approved laboratory and the corresponding review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process of the product by TÜV AUSTRIA. Moreover, in the referenced certification body or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Verification for fault-free will imply that it is no-metal, product, or service or that everyone under a TÜV AUSTRIA certification program.

2021-10-18
Date of Issue

Ivan Huang

CE Mark may only be affixed to this product after fulfilment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declared on by the manufacturer.

The validity of certificate (Max 5 years from the date of issuance or before due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 1505, World Factory Building, No.141 Lane 2216, Jiangchuan Rd., Shanghai, P.R. China

e-mail: office@cn.tuvasutria.com
TEL: 86 21 6141 0123, Fax: 86 21 6141 0124

E5875-20-0

MID of ADL200/ADL400



SGS

EU Type Examination Certificate Number: 0120/SG0486

Jiangsu Acrel Electrical Manufacturing Co. Ltd

No.5, Dongmeng Road
Nanzha
Jiangyin
Jiangsu
China

Instrument Identification: ADL 200

Single Phase, Active Import/Export kWh, Electricity Meter

Instrument Traceable Number: 0120/SG0486

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU
on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex II of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid for 10 years from 22nd July 2021 until 21st July 2031
Issue 1

Certification is based on report number(s):
SHES21040511501 dated 22nd July 2021, EMA2014451/TR0001 dated 22nd July 2021

Authorised Signature

Tom Törn

SGS Fimko OY, Notified Body 0598
Takomotie 8, FI-00380 Helsinki, Finland
T +358 9 696 361 F +358 9 6963 6361 www.sgs.fi

SGSSGSGS

Page 1 of 7

EU Type Examination Cert.



SGS

EU Type Examination Certificate Number: 0120/SG0497

Jiangsu Acrel Electrical Manufacturing Co. Ltd

No.5, Dongmeng Road
Nanzha
Jiangyin
Jiangsu
China

Instrument Identification: ADL 400

Polyphase, Active Import/Export kWh, Electricity Meter

Instrument Traceable Number: 0120/SG0497

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU
on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex II of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid for 10 years from 9th September 2021 until 8th September 2031
Issue 1

Certification is based on report number(s):
SHES21050043501 dated 23rd August 2021
EMA2014451/TR0001 dated 23rd August 2021, EMA2014451

Authorised Signature

Tom Törn

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Takomotie 8, FI-00380 Helsinki, Finland
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SGSSGSGS

Page 1 of 7

EU Type Examination Cert.

CE-MID of ADL400-U,ADL400-D



SGS

EU Type Examination Certificate Number: 0120/SG0402

Jiangsu Acrel Electrical Manufacturing. Co., Ltd

No.5, Dongmeng Road
Nanzha
Jiangyin
Jiangsu
China

Instrument Identification: ADL400-*

Polyphase, Active Import/Export kWh, Electricity Meter

Instrument Traceable Number: 0120/SG0402

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU
on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex II of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid for 10 years from 27 March 2023 until 26 March 2033
Issue 1

Certification is based on report number(s):
SHES22090101501 dated 14th March 2023, EMA2013170/TR0010 dated 24th May 2022

Authorised Signature

Mika Valkeila

SGS Fimko OY, Notified Body 0598
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T +358 9 696 361 F +358 9 6963 6361 www.sgs.fi

SGSSGSGS

Page 1 of 7

EU Type Examination Cert.

CE of DDS1352/DDSD1352/ADL10-E/ADL100-ET/ADL100-EY



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220913974-M6

Product: Three-Phase Electric Meter

Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models: DTS1352, DTSF1352, DTSY1352, DTSD1352-C, DTSD1352-F, DTSE1352-FC, DTSD1352-FZC, DTSD1352-HFC, DTSY1352-NK, DTSY1352-Z, DTSY1352-RF

Trademark / Brand: Acrel

Description / Technical Specification: Measuring Voltage: AC 3x230/400V; Measuring Current: AC 3x1(6)A,3x10(40)A; Freq:50Hz

EU Directive: 2014/35/EU

Relevant Standard(s) / Specification(s): EN IEC 61326-1:2021; EN IEC 61326-2-2:2013; EN 61000-3-3:2013+A1:2019

Test Report: 2021052200004501

Comments: None

According to the above stated test report(s), the samples of the above product have been found to comply with the applicable requirements of the mentioned standard(s) at the time the tests were carried out. It is the applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the corresponding review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process of the product by TÜV AUSTRIA. Moreover, in the referenced certification body or any change of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Verification for fault-free will imply that it is no-metal, product, or service or that everyone under a TÜV AUSTRIA certification program.

2021-10-28
Date of Issue

Ivan Huang

CE Mark may only be affixed to this product after fulfilment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declared on by the manufacturer.

The validity of certificate (Max 5 years from the date of issuance or before due to update of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate.

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TEL: 86 21 6141 0123, Fax: 86 21 6141 0124

E5875-20-0

2.3 Energy Management

CE of DTSD1352/ADL3000-E/ADL300-EY



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-22301979 4-V5

Product: Three-Phase Electric Meter

Applicant: Acrel Co., Ltd.
No.253, Yule Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.3 Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China

Type / Models: DTSD1352, DTSF1352, DTSY1352, DTSD1352-C, DTSD1352-F, DTSD1352-FC, DTSD1352-FDC, DTSD1352-MFC, DTSY1352-NK, DTSY1352-Z, DTSY1352-RF

Trademark / Brand: Acrel

Description / Technical Specification: Measuring Voltage: AC 3x230/400V
Measuring Current: AC 3x1.5(6)A,3x1.5(30)A,
Freq:50Hz

EU Directive: 2014/30/EU

Relevant Standard(s) / Specification(s): EN 61010-1:2010/A1:2019

Test Report: 2023152200004501

Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s). All of the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the subsequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process of this product by TÜV AUSTRIA. Revisions to the referenced specification basis or any change of the design, materials, components or processes may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Verification (or test) does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-12-23
Date of Issue

Ivan Huang

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max 5 years from the date of issue) may be limited due to update of the directive or standards, option of range in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate.

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E-mail: info@cn.tuvasa.com
TASH-ADL-V5/1, Rev.00

CE of ADF400L



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 38521377

Product: ADF

Applicant: Acrel Co., Ltd.
No.253, Yule Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.3, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ADF400L
ADF400L-2H1S(Y), ADF400L-2H1S(X)D(Y), ADF400L-4H23S(X)E(Y),
ADF400L-6H(3S)(X)D(Y), AUX-400L-4R1(X)D(Y),
ADF400L-10H(5S)(X)D(Y), ADF400L-12H(5S)(X)E(C*),
ADF400L-7S(21S)(Y), ADF400L-6S(A)(X)(Y), AUX-400L-4S(X)(X)D(Y),
ADF400L-10(63)(X)(Y), ADF400L-11S(333)(Y), ADF400L-12S(363)(Y)

Description / Technical Specification: Power: AC/DC85-265V
Measuring Voltage / Input: 3x(57)/400V;3x(57.7)/99V;3x(100)/600V;
Measuring Current: input: 3x(1)A;3x(1.5)A;3x(5)A;3x(10)(80)A;

EU directive: 2014/30/EU

Standard(s) / Product - Certification Basis: EN 61326-1:2013
LN ILC61000-3-2:2019
EN 61000-3-3:2013+A1:2019

Test Report: 191009TC00016631

Comments: Null

According to the above tested test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory and the subsequent review of the test report (i.e. TÜV AUSTRIA CERT GMBH). Therefore, it does not imply any assessment of the production management or the production process of this product by TÜV AUSTRIA. Revisions to the referenced specification basis or any change of the design, materials, components or processes may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Certificate of Conformity to remain valid. Furthermore the test (or validity) does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2021-04-28
Date of Issue

Ivan Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

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www.tuv.at

E-mail: zertstelle@tuv.at
CPM-TAC-D-CTA5-EC1, Rev.00



TÜV AUSTRIA (SHANGHAI) CO., LTD.

TÜV AUSTRIA

VERIFICATION OF CONFORMITY

Verification - No.: TASH-22301979 4-V6

Product: Three-Phase Electric Meter

Applicant: Acrel Co., Ltd.
No.253, Yule Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.3, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China

Type / Models: DTSD1352, DTSF1352, DTSY1352, DTSD1352-C, DTSD1352-F, DTSD1352-FC, DTSD1352-FDC, DTSD1352-MFC, DTSY1352-NK, DTSY1352-Z, DTSY1352-RF

Trademark / Brand: Acrel

Description / Technical Specification: Measuring Voltage: AC 3x230/400V
Measuring Current: AC 3x1.5(6)A,3x1.5(30)A
Freq:50Hz

EU Directive: 2014/30/EU

Relevant Standard(s) / Specification(s): LN ILC 61326-1:2021
LN ILC 61000-3-2:2019
LN 61000-3-2:2013+A1:2019

Test Report: 7825ILC20991301

Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned standard(s). All of the tests were carried out. The applicant may use the test report and this Verification of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Verification of Conformity has been granted to the applicant based on the results of testing performed by the applicant / manufacturer or an approved laboratory and the subsequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process of this product by TÜV AUSTRIA. Revisions to the referenced specification basis or any change of the design, materials, components or processes may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Verification (or test) does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-12-26
Date of Issue

Ivan Huang

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E-mail: info@cn.tuvasa.com
TASH-ADL-V6/1, Rev.00



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 38521351

Product: ADF

Applicant: Acrel Co., Ltd.
No.253, Yule Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.6, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ADF400L
ADF400L-2H1S(Y), ADF400L-2H1S(X)D(Y), ADF400L-4H23S(X)E(Y),
ADF400L-6H(3S)(X)D(Y), ADF400L-6H(3S)(X)E(C*),
ADF400L-7S(21S)(Y), ADF400L-6S(A)(X)(Y), AUX-400L-4S(X)(X)D(Y),
ADF400L-10(63)(X)(Y), ADF400L-11S(333)(Y), ADF400L-12S(363)(Y)

Description / Technical Specification: Power: AC/DC85-265V
Measuring Voltage / Input: 3x(230/400)V;3x(57.7)/100V;3x(380/660)V;
Measuring Current: input: 3x(1)A;3x(5)A;3x(10)(80)A;

EU directive: 2014/35/EU

Standard(s) / Product - Certification Basis: EN 61010-1:2010+A1:2019

Test Report: 7825GLSC16016001

Comments: N/A

According to the above stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory and the subsequent review of the test report (i.e. TÜV AUSTRIA CERT GMBH). Therefore, it does not imply any assessment of the production management or the production process of this product by TÜV AUSTRIA. Revisions to the referenced specification basis or any change of the design, materials, components or processes may require the repetition of all or some of the qualification tests in order for the test report and therefore this associated Certificate of Conformity to remain valid. Furthermore the test (or validity) does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2021-04-23
Date of Issue

Ivan Huang, Certification representative

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TÜV AUSTRIA CERT GMBH
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www.tuv.at

E-mail: zertstelle@tuv.at
CPM-TAC-D-CTA5-EC1, Rev.00

2.3 Energy Management

IEC of ADL3000-E/ADL3000



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No. TA 3861/00306

Product: ADL
Applicant: Anrel Co., Ltd
No.253, Yulv Road, Jiaxing District, Shanghai (), China
Manufacturer: Jiangsu Anrel Electric MFG. Co., Ltd.
No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ADL3000-E, ADL3000

Description / Technical Specification: ADL3000-E: AC 3x220/380V 3n~50/60A 3-phase-four wire Class 0.5S
ADL3000-C: AC 3x57.7/100V 3x5(6)A 3-phase-four wire Class 0.5S
ADL3000: AC 3x220/380V 3x5(6)A 3-phase-four wire Class 0.5S
ADL3000: AC 3x57.7/100V 3x5(6)A 3-phase-four wire Class 0.5S

Standard(s) / Protocol: IEC 62053-22:2003
Certificate Issue: CE 65539 22 0003

Test Report: T2319 43656
Comments: N/A

According to the screen-tested and regularly the agreed products comply with the applicable requirements of the mentioned standard(s). Therefore, it does not imply any assessment of the whole Certificate of Conformity in connection with the declaration of conformity within the meaning of the relevant EU Directive(s) and others.
This Certificate of Conformity has been granted by the applicant based on the results of testing performed by the testing bodies listed or an equivalent laboratory and the conclusion review of the test report by TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the production process of the above mentioned product. The holder of this certificate is responsible for ensuring that the above mentioned measurement or processing equipment inspection interval comes to be established duly if used by the listed recipient and thereby this association could be in remote work. Performance of Conditions for a Certificate of Conformity on a voluntary basis of the relevant measuring equipment performed as well.

2019-12-11
Date of Issue

Ivan Huang, Cer. Quality Management Officer

The validity of this certificate (Note: It starts from the date of issue) can be checked on the "TÜV AUSTRIA e-Validator" (http://www.tuv.at/certcheck) or also is available in CES. It is (1) to be registered in TÜV AUSTRIA CERT GMBH. The holder of this document is advised that it has to: notify it that third parties may not further use the information contained in the certificate; b) to refer to the date of issue; and refer to the limits of the application, if any).

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Austria

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EAC of ADL10-E/ADL100-ET/ADL100-EY/ADL200/ADL400



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

EAC

Заявитель Индивидуальный предприниматель Солдатов Виктор Германович

Место нахождения и адрес места осуществления деятельности: Российская Федерация, Москва, 129164, проспект Мира, дом 120, квартира 99, основной государственный регистрационный номер индивидуального предпринимателя, 316774600499804, номер телефона: +79104507389, адрес электронной почты: Cs1352@mail.ru

в лице

заявляет, что Приборы измерительные лабораторные: измеритель мощности, торговая марка "ADL", модели: ADL10-E; ADL100-ET; ADL200; ADL3000-E; ADL400

изготовитель "Jiangsu Anrel Electrical Manufacturing Co., Ltd." Место нахождения и адрес места осуществления деятельности по изготовлению продукции: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, Китай.

Код ТН ВЭД ЕАЭС 9032309000. Серийный выпуск

соответствует требованиям

ТР ТС 004/2011 "О безопасности низковольтного оборудования", ТР ТС 020/2011 "Электромагнитная совместимость технических средств".

Декларация о соответствии принята на основании

Протоколов испытаний № VTI06179-2019/12 ИЦИТЦ от 09.12.2019 года, выданного Испытательной лабораторией ООО "ВОЛГА-ТЕСТ", аттестат аккредитации РОСС RU.31532.ИЛ02, Протокола идентификации № VTI06180-2019/12 ИЦИТЦ от 09.12.2019 года, выданного Испытательной лабораторией ООО "ВОЛГА-ТЕСТ", аттестат аккредитации РОСС RU.31532.ИЛ02.

Схема декларирования 1д

Дополнительная информация

ГОСТ 12.2.007.0-75 "Система стандартов безопасности труда. Изделия электротехнические. Общие требования безопасности"; ГОСТ 30804.3.2-2013 (IEC 61000-3-2:2009) «Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний», раздел 5 и 7; ГОСТ 30804.3.3-2013 (IEC 61000-3-3:2008) «Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при необусловленных определенных условий подключения. Нормы и методы испытаний», раздел 5. Условия и сроки хранения стандартные при нормальных значениях климатических факторов внешней среды. Срок службы (пожизни) указан в эксплуатационной документации.

Декларация о соответствии действительна с даты регистрации по 16.12.2024 включительно

М.П. Солдатов Виктор Германович

Солдатов Виктор Германович
(Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-CN.ИВ27.В.01187/19

Дата регистрации декларации о соответствии: 17.12.2019

RoHS of ADL series



Report No. 48.600.20.9024.00-00/04
Dated 2020-12-08

TÜV SÜD China

Technical Report

Client: Jiangsu Anrel Electrical Manufacturing. Co., Ltd.
No. 5, Dongmeng Road. Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han zhonghua

Test object: The submitted samples were received and described by client as:
Product: Meter
Model: ADL

Tested sample description: Refer to next page(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.

Test result: Refer to the data listed in following pages

Conclusion: With regard to the tests listed components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd.
10 Huaxia Road(M), Zhangjiang, Hi-tech
Zhangjiu, 215100, P. R. China

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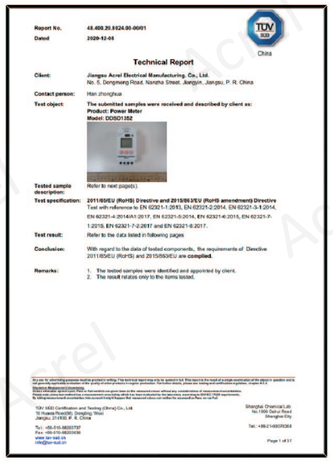
Fax: +86-512-68403806
www.tuv-sud.cn
mlip@tuv-sud.cn

Shanghai Chemical Lab
No. 1589 Dahui Road
Shanghai City

Tel.: +86-21-60376068

Page 1 of 20

RoHS of DDS1352/DDSD1352/ADL10-E/ADL100-ET/ADL100-EY



Report No. 48.600.20.9024.00-00/01
Dated 2020-12-08

TÜV SÜD China

Technical Report

Client: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No. 5, Dongmeng Road. Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han zhonghua

Test object: The submitted samples were received and described by client as:
Product: Power Meter
Model: DDSD1352

Tested sample description: Refer to next page(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd.
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Shanghai City

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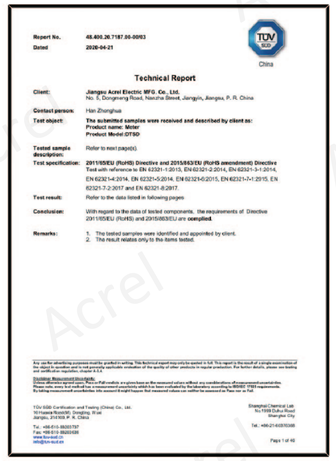
Page 1 of 17

2.3 Energy Management

RoHS of DTSD1352/ADL3000-E/ADL300-EY



Report No. 48.400.20.7187.00-00/03
Dated 2020-04-21

TÜV SÜD China

Technical Report

Client: Jiangsu Acrel Electric MFG. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: The submitted samples were received and described by client as:
Product name: Meter
Product Model: DTSD

Tested sample description: Refer to item (sp)(s).

Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.

Test result: Refer to the data listed in following pages

Conclusion: With regard to the data of tested components, the requirements of Directive 2011/65/EU (RoHS) and 2015/863/EU are complied.

Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to this items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd.
10 Huaxia Road(W), Dongjing, Rd
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Tel.: +86-510-86203797
Fax: +86-510-86203308
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web@tuv-sud.cn

Shanghai Chemical Lab
No.1999 Duhui Road
Shanghai City
Tel.: +86-21-61570388

Page 1 of 40

REACH of DTSD1352



Report No. 48.400.21.7973.00-00/03
Dated 2021-02-02

TÜV SÜD China

SVHC Assessment Report

Client: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han zhonghua

Test object: The submitted samples were received and described by client as:
Product:Electric Meter
Model: DTSD1352

Additional model: DDSD1352, ADL3X4S, ADL300, ADL400

Purpose of Evaluation: Based on the Candidate List, to test the listed 211 substances or Substances of Very High Concern (SVHC) for Authorization updated on 19 January 2021, which was published in accordance with Article 59(10) of the REACH Regulation (EC) No 1907/2006.

Test method: 1). Test portion is digested with acid, analyzed by ICP-OES and UV-VIS.
2). Organic solvent extraction, analyzed by IOC-MS, HPLC.

Summary:

The substances of Very High Concern concentration **less than** 0.1%	Group 1~ Group 5
	Group 7~ Group 8
The substances of Very High Concern concentration **more than** 0.1%	Group 6 (see page 16 ~18)

Remark: 1. The tested samples were identified and appointed By client.
2. The result relates only to the items tested.
3. As the client required, the sample was tested in mixture.

TÜV SÜD Certification and Testing (China) Co., Ltd.
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Shanghai Chemical Lab
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Shanghai City
Tel.: +86-21-61570388

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UKCA of ADL400/DTSD1352



CERTIFICATE

Anbotek Product Safety

Certificate of Conformity
Electrical Equipment (Safety) Regulations 2016
(UK SI 2016 No. 1101)

Registration No.: AT582305C200839

Report No.: 5823.0SC20083901

Applicant : Acrel Co., Ltd.
No.253, Yulv Road, Jiading District, Shanghai, China

Product : Three-Phase Electric Meter

Model No. : ADL400,DTSD1352,ADL3000,DTSY1352,DTSF1352,
ADL3000-E,ADL3000-EY,ADL3000-SF,ADL3000-DK,ADL3000-
EK,ADL3000-ET,ADL3000-EH,ADL3000-EFC,ADL3000-
E/CT,DTSD1352-*

Trade Mark : Acrel

Rating : 220-230V, 50Hz/60Hz, 80A

Test Standards : BS EN 61010-1:2010

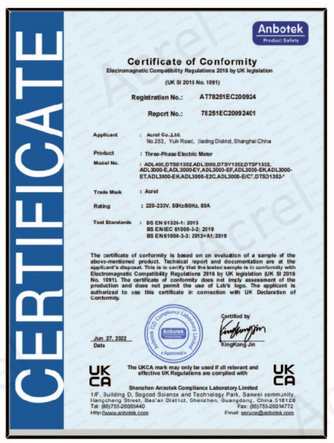
The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Electrical Equipment (Safety) Regulations 2016 by UK legislation EAR 2016 Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply assessment of the series-production of the product. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity specified in Article 16 and Annex IV of the Directive.

Certified by
Terry Tian
Manager

Jun. 27, 2022
Date

UK CA The CE Marking may only be used if all relevant and effective EU Directives are complied with UK CA

Anbotek (Guangzhou) Compliance Laboratory Limited
Room 508, Building 2, No.232, Kezhu Road, Science City, Guangzhou Economic & Technology Development Area, Guangzhou, Guangdong, China
Tel: (86)020-82775137 Email: service.cn@anbotek.com



CERTIFICATE

Anbotek Product Safety

Certificate of Conformity
Electromagnetic Compatibility Regulations 2016 by UK legislation
(UK SI 2016 No. 1091)

Registration No.: AT78251EC200924

Reprt No.: 7825.1EC20092401

Applicant : Acrel Co.,Ltd.
No.253, Yuli Road, Jiading District, Shanghai China

Product : Three-Phase Electric Meter

Model No. : ADL400,DTSD1352,ADL3000,DTSY1352,DTSF1352,
ADL3000-E,ADL3000-EY,ADL3000-SF,ADL3000-DK,ADL3000-
ETADL3000-E,KADL3000-E2C,ADL3000-E/CT,DTSD1352-*

Trade Mark : Acrel

Rating : 220-230V, 50Hz/60Hz, 80A

Test Standards : BS EN 61326-1: 2013
BS EN/IEC 61000-3-2: 2019
BS EN 61000-3-3: 2013+A1: 2019

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Electromagnetic Compatibility Regulations 2016 by UK legislation EAR SI 2016 No. 1091 relating to electrical equipment. The certificate does not imply assessment of the series-production and does not permit the use of LAB's logo. The applicant is authorized to use this certificate in connection with UK Declaration of Conformity.

Certified by
KingKong Jin

Jun. 27, 2022
Date

UK CA The UKCA mark may only be used if all relevant and effective UK Regulations are complied with UK CA

Shenzhen Anbotek Compliance Laboratory Limited
1/F., Building D, Baiguoli Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China 518128
Tel: (86)755-26059440 Fax: (86)755-26024772
Http://www.anbotek.com Email: service@anbotek.com

Part 2 Product Qualification

2.3 Energy Management

AEM series energy meter

RoHS of AEM96



Test Report No.: 48.400.22.1924.01-00/14
Rev.: 00
Dated: 2022-09-01

Applicant: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address: No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Attn: Han Zhonghua
Sample Description: Meter
Model No.: AEM96
Sample Received Date: 2022-08-05
Test Period: 2022-08-05~2022-09-25
Test Location: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, SHA Chemical Lab
Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Results: Refer to following page(s)
Remark: - The result relates only to the items tested.
- The reference model(s) was declared by client.
- The test sample(s) and item(s) was specified by client.

TÜV SÜD Certification and Testing (China) Co., Ltd.
TÜV SÜD Group
Prepared by: Mr. Yiwei CHEN
Reviewed by: Mr. Feng ZHANG

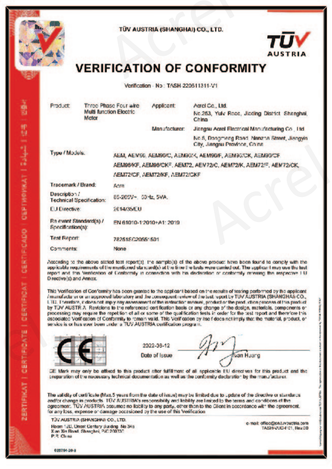
Disclaimer Measurement Uncertainty:Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties.Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory asserding to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Failure,use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the objects in question and is not generally valid for assessing the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A.5.4.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
#151, Hengfeng Road, Shanghai 200 070, P.R.China
Tel.: +86-21-61 91-0123 Fax: +86-21-6140-8600
www.tuv-sud.cn.info@tuv-sud.cn

Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd.
Shanghai Branch Testing Center
No. 1998 Du Hui Rd,Minhang District,
Shanghai 201 108, P.R. China

Page 1 of 60

CE of AEM series



TÜV AUSTRIA (SHANGHAI) CO., LTD.

VERIFICATION OF CONFORMITY

Verification No.: TASH 220511311 V1

Product: Three Phase Four wire Multi function Electric Meter
Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District Shanghai, China
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd. No.5, Dongmeng Road Nanzha Street, Jiangyin City, Jiangsu Province, China
Type / Models: AEM, AEW96, AEM96WC, AJM96CK, AEM96IK, AJM96CK, AEM96KP, AEM96KPC, AEM72, AEW72KC, AEM72K, AEM72P, AEW72CK, AEM72CP, AEM72KP, AEM72CKP
Trademark / Brand: Acrel
Description / Technical Specification: DC/AC 220V~ 10-6(), 5VA
E.U.Directive: 2014/30/EU
Harmonised Standard(s) / Specification(s): EN 61010-1:2010+A1:2019
Test Report: 7836567/2666/ 631
Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned directive(s) at the time when tests were carried out. The applicant may use this test report and this Verification of Conformity in connection with his declaration or conformity meeting the requirements of EU Directive(s) and Annex.

This Verification of Conformity has been granted on the applicant based on the results of testing performed by the applicant himself under or on supervised laboratories and the unsupported volume of the test report to TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process, product or the post, since revisions of this piece of by TÜV AUSTRIA. Revisions to the reference(s) and Section basis or any change of the design, materials, components or processing may require the rejection of all or some of the qualification tests in order for the test report and therefore this associated Verification of Conformity to remain valid. This Verification of Test does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-09-12
Date of Issue
Han Huang

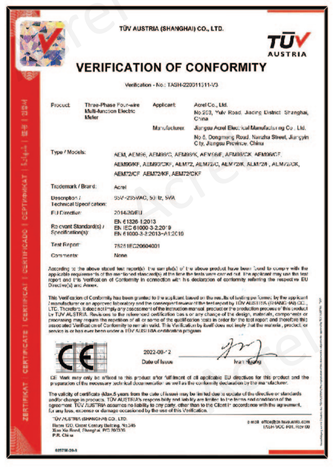
CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the completion of the necessary conformity assessment as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to, failure of the directive or standards and/or change in products. TÜV AUSTRIA is not assessing, and liability as issued to the series and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 501, Green Century Building, No.349
Jinzhu Road, Pudong, Shanghai, P.R. 200135
P.R. China

e-mail: office@tuvaustria.com.cn
TASH-AQ-CP-T1, Rev.09

F2019A-04-3



TÜV AUSTRIA (SHANGHAI) CO., LTD.

VERIFICATION OF CONFORMITY

Verification - No.: TASH-220511311-V3

Product: Three-Phase Four-wire Multi-function Electric Meter
Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Type / Models: AEM, AEW96, AEM96WC, AEM96IK, AEW96KP, AEM96KPC, AJM96CK, AEM96KP, AEM96KPC, AEM72, AEM72KC, ALM72CK, ALM72P, ALM72CK, AEM72CP, AEM72KP, AEM72CKP
Trademark / Brand: Acrel
Description / Technical Specification: 50/4~220VAC, 5(6) 5A, 5VA
E.U.Directive: 2014/30/EU
Harmonised Standard(s) / Specification(s): EN 61326-1:2013
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
Test Report: 7525 IECC20604001
Comments: None

According to the above stated test report(s), the sample(s) of the above product have been found to comply with the applicable requirements of the mentioned directive(s) at the time when tests were carried out. The applicant may use this test report and this Verification of Conformity in connection with his declaration of conformity meeting the requirements of EU Directive(s) and Annex.

This Verification of Conformity has been granted on the applicant based on the results of testing performed by the applicant himself under or on supervised laboratories and the unsupported volume of the test report to TÜV AUSTRIA (SHANGHAI) CO., LTD. Therefore, it does not imply any assessment of the production process of the product by TÜV AUSTRIA. Revisions to the reference(s) and Section basis or any change of the design, materials, components or processing may require the rejection of all or some of the qualification tests in order for the test report and therefore the associated Verification of Conformity to remain valid. This Verification of Test does not imply that the material, product, or service is or has ever been under a TÜV AUSTRIA certification program.

2022-09-12
Date of Issue
Han Huang

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of certificate (Max.5 years from the date of issue) may be limited due to, failure of the directive or standards and/or change in products. TÜV AUSTRIA's responsibility and liability are limited to the terms and conditions of the agreement. TÜV AUSTRIA assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification.

TÜV AUSTRIA (SHANGHAI) CO., LTD.
Room 501, Green Century Building, No.349
Jinzhu Road, Pudong, Shanghai, P.R. 200135
P.R. China

e-mail: office@tuvaustria.com.cn
TASH-VOC-FOR-1029 09

F2019A-04-3

AEW Series Wireless Energy Meter

CE of AEW100



UDEM

CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.
Company Address : No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electric MFG. Co., Ltd.
Manufacturer Address : No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 62368-1:2014+A11:2017, EN 61000-3-12:2011
EN 61000-3-3:2013, EN IEC 61000-6-1:2019
EN 61000-6-3:2007/A1:2011/AC:2012
Product Name : Wireless Metering Instrument
Report No and Date : XJ2019032701LVDEMC
Product Brand/Model/Type : Acrel; AEW100-D10, AEW100-D15, AEW-D20, AEW-D35, AEW100-D10X, AEW100-D15X, AEW-D20X, AEW-D35X, AEW-D20/TN, AEW-D35/TN, AEW-D20/ATN, AEW-D35/ATN

Certificate Number : M.2019.206.C0575
Initial Assessment Date : 03.04.2019
Registration Date : 04.04.2019
Renewal Date/No : -
Expiry Date : 03.04.2024

The validity of the certificate can be checked through www.udem.com.tr. The QR, mark shown on the right can only be used under the responsibility of the manufacturer with the conversion of EC Declaration of Conformity into CE marking. UDEM International Certification and Trade Inc. Co., Certification Auditing Training Centre Industry and Trade Inc. Co. , to whom it must be informed upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the products listed above and CEMC must be informed in case of any changes on the product(s).

UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.,

Adres ve. Mustakmil Mahallesi 2073 Sokak (Eski 53 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 312 443 03 90 Fax: +90 0312 443 03 75
E-mail: info@udemtr.com.tr www.udem.com.tr

CE of AEW100(Rogowski Coil)



UDEM

CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.
Company Address : No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer Name : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Manufacturer Address : No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN 61010-1:2010+A1:2019, EN 61326-1:2013
EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Product Name : Wireless Metering Instrument
Report No and Date : 182405C000228/ 182405E000402
Product Brand/Model/Type : Acrel; AEW100-D10R, AEW100-D10R-W/CG, AEW100-D10R-W/CL, AEW100-D10R-W/CT, AEW100-D10R-W/CCL, AEW100-D10R/X, AEW100-D10R-W/X, AEW100-D10R-W/X-CG, AEW100-D10R/X-W/X, AEW100-D10R-W/X-CT, AEW100-D10R-W/X-CCL, AEW100-D10R-W/X-TN, AEW100-D10R-W/X-TN-CG, AEW100-D10R-W/X-TN-CT, AEW100-D10R-W/X-TN-CCL, AEW100-D10R/X-TN, AEW100-D10R-W/X-TN, AEW100-D10R-W/X-TN-CG

Certificate Number : M.2020.206.C0605
Initial Assessment Date : 27.10.2020
Registration Date : 28.10.2020
Renewal Date/No : -
Expiry Date : 27.10.2025

The validity of the certificate can be checked through www.udem.com.tr. The QR, mark shown on the right can only be used under the responsibility of the manufacturer with the conversion of EC Declaration of Conformity into CE marking. UDEM International Certification and Trade Inc. Co., Certification Auditing Training Centre Industry and Trade Inc. Co. , to whom it must be informed upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate only covers the products listed above and CEMC must be informed in case of any changes on the product(s).

UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.,

Adres ve. Mustakmil Mahallesi 2073 Sokak (Eski 53 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 312 443 03 90 Fax: +90 0312 443 03 75
E-mail: info@udemtr.com.tr www.udem.com.tr

2.3 Energy Management

CE of AEW110



CERTIFICATE

ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.

Company Address : No.253, Yulv Road, Jiading District, Shanghai, China

Manufacturer Name : Jiangsu Acrel Electric MFG. Co., Ltd.

Manufacturer Address : No.5, Dongmeng Road, Nancha Street, Jiangyin City, Jiangsu Province, China

Related Directives and Annex : 2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive

Related Standards : EN 62368-1:2014+A11:2017, EN 61000-3-12:2011
EN 61000-3-2:2013, EN IEC 61000-6-1:2019
EN 61000-6-3:2007/A1:2011/AC:2012

Product Name : Wireless Communication Converters

Report No and Date : XJ2019032702L/VDEMC

Product Brand/Model/Type : Acrel, AEW110-L, AEW110-L/X

Certificate Number : M.2019.206.C0576
Initial Assessment Date : 03.04.2019
Registration Date : 04.04.2019
Reissue Date/No : -
Expiry Date : 03.04.2024

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity and meeting all the requirements of the relevant Directive. This certificate of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 10 years from the registration of certificate. This certificate is subject to terms and conditions overleaf. Any alteration, modification or misuse renders it void.

UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

Adalet Mh. Mutlukent Mahallesi 2073 Sokak (Eski 53 Sokak) No:10 Çankaya – Ankara – TURKEY
Phone: +90 312 443 03 90 Fax: +90 312 443 03 76
E-mail: info@udemtr.com.tr www.udem.com.tr

UDEM

- ADW series IOT power meter

CE of ADW2xx series



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 39821 3679

Product: AUW

Applicant: Acrel Co., Ltd.
No.253, Yulv Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nancha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ACW300/ADW300W

Description / Technical Specification: Power: AC/DC85-265V
Measuring Voltage input: 3x230/400V,3x57.7/100V,3x380/660V;
Measuring Current input: 3x5(6)A,3x3(6)A,3x1(6)A,3x0.5(1)A,3x1(2)A

EU directive: 2014/30/EU

Electrical rating / Product - Certification Ident.: EN 61010-1:2010+A1:2019

Test Report: 182500C 1002731

Comments: N/A

Assessment: The above stated test results, especially the scratched parts, all complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring to the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory and the subsequent review of the test report by TÜV AUSTRIA CERT GMBH. Testing, if deemed necessary, may occur at the manufacturing site and/or storage of the device, materials, components or processes. Failure by the subsequent certification tests or any change of the design, materials, components or processes may render the registration of all or some of the specification tests in order for the said scope to be void and therefore this associated certificate for in-situ valid. Each licensee the General Conditions for a Certificate of Conformity or a revocation of/amendment that it was concerning a specified product are valid.

2021-04-23
Date of Issue

Ren Hong, Certification representative

CE Mark may only be affixed to this product after fulfilment of all applicable EU directives for this product and the preparation of the necessary technical documentation as can be the conformity declaration by the manufacturer.

"The validity of this certificate starts from the date of issue (as declared on the TÜV AUSTRIA Homepage. Any alteration to the product as described in scope is subject to approval by TÜV AUSTRIA CERT GMBH. The validity of this certificate is subject to the continuous surveillance of the manufacturing site by the certification body's findings on the date of issue and at the time of the annual surveillance. If the above mentioned conditions are not met, the certificate will be withdrawn."

TÜV AUSTRIA CERT GMBH
Tech. Zentrum, Talstr. 1, 2344 Maria Enzersdorf

e-mail: certification@at.tuv.com
QM-ATA-TÜ-CZ-7743-1-005, Rev.30



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 39521 3550

Product: ACW

Applicant: Acrel Co., Ltd.
No.253, Yulv Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nancha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ACW300/ADW300W

Description / Technical Specification: Power: AC/DC85-265V
Measuring Voltage input: 3x230/400V,3x57.7/100V,3x380/660V;
Measuring Current input: 3x5(6)A,3x3(6)A,3x1(6)A,3x0.5(1)A,3x1(2)A

EU directive: 2014/30/EU

Electrical rating / Product - Certification Ident.: EN 61010-1:2010+A1:2019

Test Report: 182500C1 0001 6701

Comments: N/A

Assessment: The above stated test results, especially the scratched parts, all complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring to the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory and the subsequent review of the test report by TÜV AUSTRIA CERT GMBH. Testing, if deemed necessary, may occur at the manufacturing site and/or storage of the device, materials, components or processes. Failure by the subsequent certification tests or any change of the design, materials, components or processes may render the registration of all or some of the specification tests in order for the said scope to be void and therefore this associated certificate for in-situ valid. Each licensee the General Conditions for a Certificate of Conformity or a revocation of/amendment that it was concerning a specified product are valid.

2021-11-23
Date of Issue

Gan Hailong, Certification representative

CE Mark may only be affixed to this product after fulfilment of all applicable EU directives for this product and the preparation of the necessary technical documentation as can be the conformity declaration by the manufacturer / importer.

"The validity of this certificate starts from the date of issue (as declared on the TÜV AUSTRIA Homepage. Any alteration to the product as described in scope is subject to approval by TÜV AUSTRIA CERT GMBH. The validity of this certificate is subject to the continuous surveillance of the manufacturing site by the certification body's findings on the date of issue and at the time of the annual surveillance. If the above mentioned conditions are not met, the certificate will be withdrawn."

TÜV AUSTRIA CERT GMBH
Tech. Zentrum, Talstr. 1, 2344 Maria Enzersdorf

e-mail: certification@at.tuv.com
QM-ATA-TÜ-CZ-7743-1-005, Rev.30

RoHS of ADW300



Test Report No.: 48.400.22.1024.01-00/13
Rev.: 00
Dated: 2022-09-01

Applicant: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address: No. 5, Dongmeng Road, Nancha Street, Jiangyin, Jiangsu, P. R. China
Attn: Han Zhonghua
Sample Description: Meter
Model No.: ADW300
Sample Received Date: 2022-08-05
Test Period: 2022-08-05~2022-08-26
Test Location: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, SHA Chemical Lab.
Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Results: Refer to following page(s)
Remark: - The result relates only to the items tested.
- The reference model(s) was declared by client.
- The test sample(s) and item(s) was specified by client.

TÜV SÜD Certification and Testing (China) Co., Ltd.
TÜV SÜD Group
Prepared by: Mr. Yiwei CHEN
Reviewed by: Mr. Feng ZHANG

Disclaimer: Measurement Uncertainty:Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties.Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.Any use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A.2.4.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
#101, Hengtong Road, Shanghai 200 070, P. R.China
Tel.: +86-21-6141-0123 Fax: +86-21-6140-8630
www.tuv-sud.cn info@tuv-sud.cn

Laboratory:
TÜV SUD Certification and Testing (China) Co., Ltd.
Shanghai Branch Testing Center
No. 1999 Du Hui Rd, Minhang District,
Shanghai 201108 P.R. China

Page 1 of 47

RED of ADW300



MiCOM Labs

CERTIFICATE of EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

Product Name:
Energy Meter

Approved Holder Name:
Acrel Co., Ltd.

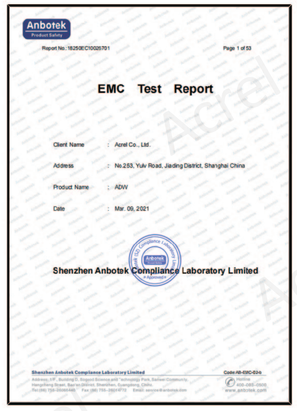
This Certificate is issued under the authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA

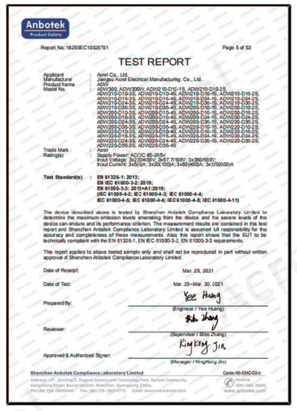
By Body Duly Name: 2200

Clyton Ward, Product Certifier

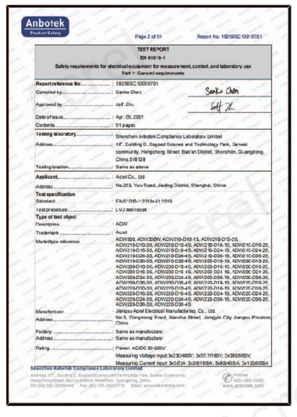
2.3 Energy Management

CE of ADW210/300 series





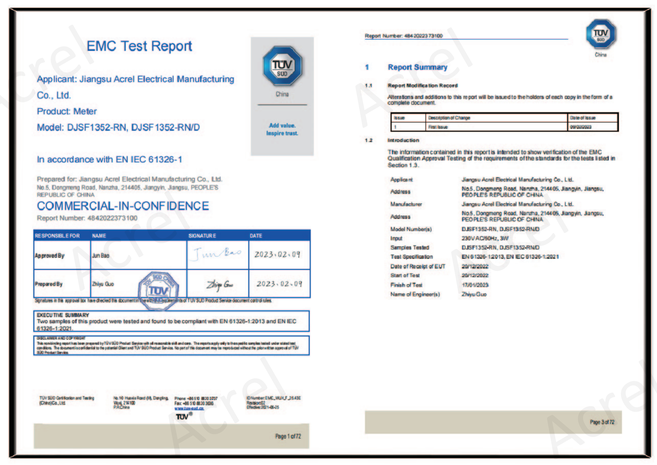




DJSFseries Din DC Energy Meter

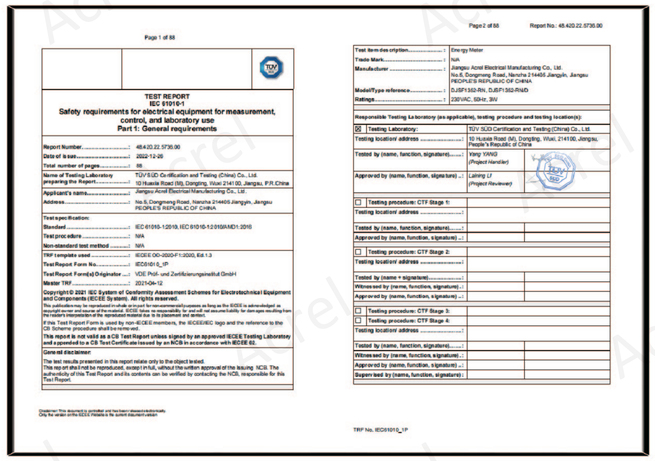
CE of DJSF series





2.3 Energy Management

CE of DJSF series



Page 1 of 88

TEST REPORT
IEC 61010-1
Safety requirements for electrical equipment for measurement, control, and laboratory use
Part 1: General requirements

Report Number	48A20.22.5736.00
Date of issue	2022-12-26
Total number of pages	88
Name of Testing Laboratory preparing the Report	TÜV SÜD Certification and Testing (China) Co., Ltd. 10 Huaxia Road (M), Dongling, Wuxi 214100, Jiangsu, P.R.China
Applicant's name	Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address	No.5, Dongmeng Road, Nanzha 214405 Jiangyin, Jiangsu PEOPLE'S REPUBLIC OF CHINA
Test specification:	
Standard	IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016
Test procedure	N/A
Non-standard test method	N/A
TRF template used	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No.	IEC61010_1F
Test Report Form(s) Originator	VDE Prüf- und Zertifizierungsinstitut GmbH
Master TRF	2021-04-12

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This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Disclaimer: This document is controlled and has been released electronically.
Only the version in the IECEE intranet is the current document version

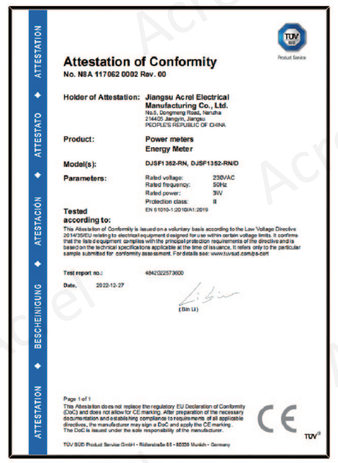
Page 2 of 88 Report No.: 48.420.22.5736.00

Test item description	Energy Meter
Trade Mark	N/A
Manufacturer	Jiangsu Acrel Electrical Manufacturing Co., Ltd. No.5, Dongmeng Road, Nanzha 214405 Jiangyin, Jiangsu PEOPLE'S REPUBLIC OF CHINA
Model/Type reference	DJSF1352-RN, DJSF1352-RNÐ
Ratings	230VAC, 50Hz, 3W

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):	
☒ Testing Laboratory:	TÜV SÜD Certification and Testing (China) Co., Ltd.
Testing location/ address	10 Huaxia Road (M), Dongling, Wuxi, 214100, Jiangsu, People's Republic of China
Tested by (name, function, signature)	Yang YANG (Project Handler)
Approved by (name, function, signature)	Laiking LI (Project Reviewer)
☐ Testing procedure: CTF Stage 1:	
Testing location/ address	
Tested by (name, function, signature)	
Approved by (name, function, signature)	
☐ Testing procedure: CTF Stage 2:	
Testing location/ address	
Tested by (name + signature)	
Witnessed by (name, function, signature)	
Approved by (name, function, signature)	
☐ Testing procedure: CTF Stage 3:	
☐ Testing procedure: CTF Stage 4:	
Testing location/ address	
Tested by (name, function, signature)	
Witnessed by (name, function, signature)	
Approved by (name, function, signature)	
Supervised by (name, function, signature)	

TRF No. IEC61010_1F

RoHS of DJSF1352-RN



ATTESTATION ◆ ATTESTATO ◆ ATTESTATION ◆ BESCHEINIGUNG ◆ ATTESTATION

Attestation of Conformity
No. NBA 117062 0092 Rev. 00

Holder of Attestation: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nanzha
214405 Jiangyin, Jiangsu
PEOPLE'S REPUBLIC OF CHINA

Product: Power meters
Energy Meter

Model(s): DJSF1352-RN, DJSF1352-RNÐ

Parameters:
Rated voltage: 230VAC
Rated frequency: 50Hz
Rated power: 3W
Protection class: II
EN 61010-1:2010/A1:2019

Tested according to:

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the tests equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 48420222573000

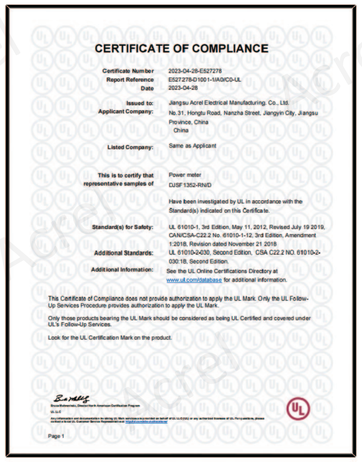
Date, 2022-12-27

(Bin Li)

Page 1 of 1
This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking.
The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

UL of DJSF1352-RN/D(E527278)



CERTIFICATE OF COMPLIANCE

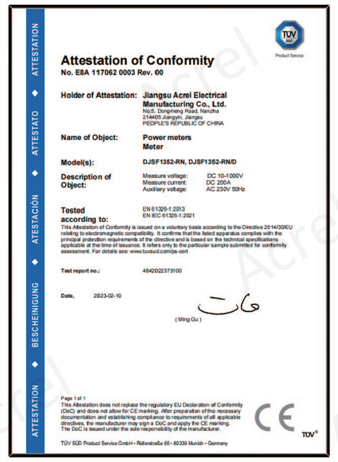
Certificate Number	2023-04-28-E527278
Report Reference	E527278-D1001-1/AGICD-UL
Date	2023-04-28
Issued to:	Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Applicant Company:	No.31, Hongju Road, Nanzha Street, Jiangyin City, Jiangsu Province, China China
Listed Company:	Same as Applicant
This is to certify that representative samples of	Power meter DJSF1352-RNÐ
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 61010-1, 3rd Edition, May 11, 2012, Revised July 19 2019. CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition, Amendment 1:2018, Revision dated November 21 2019.
Additional Standards:	UL 61010-2-030, Second Edition, CSA C22.2 NO. 61010-2-030:18, Second Edition.
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Page 1



ATTESTATION ◆ ATTESTATO ◆ ATTESTATION ◆ BESCHEINIGUNG ◆ ATTESTATION

Attestation of Conformity
No. EBA 117062 0003 Rev. 00

Holder of Attestation: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmeng Road, Nanzha
214405 Jiangyin, Jiangsu
PEOPLE'S REPUBLIC OF CHINA

Name of Object: Power meters
Meter

Model(s): DJSF1352-RN, DJSF1352-RNÐ

Description of Object:
Measure voltage: DC 10-1000V
Measure current: DC 200A
Auxiliary voltage: AC 230V 50Hz

Tested according to:
EN 61326-1:2013
EN IEC 61326-1:2021

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the tested apparatus complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 48420222373100

Date, 2023-02-10

(Ming Gu)

Page 1 of 1
This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking.
The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

2.3 Energy Management

■ ADF series multi-circuits energy meter

CE of ADF400L series



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 165213077

Product: ADF

Applicant: Acrel Co., Ltd.
No.253, Yuhe Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmiaoqiao Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ADF400L

Description / Technical Specification: Power: AC/DC85~265V
Measuring Voltage input: 3x220/400V 3x57.7/100V 3x380/660V;
Measuring Current input: 5x1(12)A 3x5(6)A 3x10(60)A

EU directive: 2014/30/EU

Standard(s) / Product: EN 61326-1:2013

Certification basis: EN IEC 61000-3-2:2019+A1:2021

Test report: 165SAFC:0016631

Comments: N/A

According to the above stated test report(s), the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity relating to the respective EU Directive(s) and Annex.
This Certificate of Conformity first took granted to the applicant based on the results of testing performed by the laboratory listed in the test report(s). It does not imply any assessment of the production facilities or the quality control of the Holder. Therefore, it does not imply any assessment of the next article manufactured or the post-delivery process of the product by TÜV AUSTRIA. Revisions to the referenced standard basis or any change of the design, materials, components or processes, may require the cancellation of all or some of the applicable tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity on a national or international Standard concerning a specified product are valid.

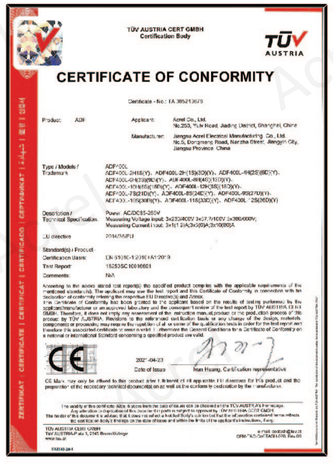
2021-04-23
Date of Issue

Yun Huang, Certification representative

CE Mark may only be affixed to the product after fulfilment of all appropriate EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of this certificate (date & status) can be checked on the TÜV AUSTRIA's Homepage.
Any alterations or duplicates of this document or parts is subject to approval by TÜV AUSTRIA CERT GMBH.
The holder of this document is advised that it does not affect a finished product and that possible continued service intervals for periodic tests or audits have to be met on the date chosen and within the limits of the applicable standards, if any.

TÜV AUSTRIA CERT GMBH
Deutschstraße 10, 1230 Wien/Vienna
Austria



TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 165213077

Product: ADF

Applicant: Acrel Co., Ltd.
No.253, Yuhe Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.
No.5, Dongmiaoqiao Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ADF100L

Description / Technical Specification: Power: AC/DC85~265V
Measuring Voltage input: 3x220/400V 3x57.7/100V 3x380/660V;
Measuring Current input: 3x1(12)A 3x5(6)A 3x10(60)A

EU directive: 2014/30/EU

Standard(s) / Product: EN 61326-1:2013

Certification basis: EN IEC 61000-3-2:2019

Test report: 165SAFC:0016631

Comments: N/A

According to the above stated test report(s), the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity relating to the respective EU Directive(s) and Annex.
This Certificate of Conformity first took granted to the applicant based on the results of testing performed by the laboratory listed in the test report(s). It does not imply any assessment of the production facilities or the quality control of the Holder. Therefore, it does not imply any assessment of the next article manufactured or the post-delivery process of the product by TÜV AUSTRIA. Revisions to the referenced standard basis or any change of the design, materials, components or processes, may require the cancellation of all or some of the applicable tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity on a national or international Standard concerning a specified product are valid.

2021-04-23
Date of Issue

Yun Huang, Certification representative

CE Mark may only be affixed to the product after fulfilment of all appropriate EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of this certificate (date & status) can be checked on the TÜV AUSTRIA's Homepage.
Any alterations or duplicates of this document or parts is subject to approval by TÜV AUSTRIA CERT GMBH.
The holder of this document is advised that it does not affect a finished product and that possible continued service intervals for periodic tests or audits have to be met on the date chosen and within the limits of the applicable standards, if any.

TÜV AUSTRIA CERT GMBH
Deutschstraße 10, 1230 Wien/Vienna
Austria

2.4 New Energy

■ AGF Series Solar String Monitoring Device

CE of AGF-M16TKV-P3



CELAB®
Via Miele snc
04100 Latina
Italy
celab@c-celab.com

celab

CERTIFICATE

Certificate Number UCN : 80922019301
Job : J20143
Date of Issue : 2020-04-16
Certificate valid up to : 2024-04-14

Brand Name : Acrel
Type : Solar PV String Monitor
Model N : AGF-M04TKV-P3, AGF-M08TKV-P3, AGF-M12TKV-P3, AGF-M16TKV-P3, AGF-M12TKV-P3, AGF-M16TKV-P3, AGF-M24T, AGF-M16TKV-P3

Manufacturer : Acrel Co., Ltd
Address : No.253, Yuhe Road, Jiading District, Shanghai China

Conclusion :
After inspection of the technical documentation issued by the customer, and in his request, we express the following opinion:

This opinion is only valid for the discipline, the equipment and configuration described. In conjunction with the test data detailed above and with compliance with all applicable legal requirement for like product.
The following manufacturer documents were inspected:

Directives indicated in the Declaration of Conformity: 2014/30/EU Electromagnetic compatibility (EMC) 2014/35/EU Low Voltage (LVD)
Harmonized used in the process: EN 61326-2-3:13, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61010-1:2010
Presence of Declaration of conformity	✔ OK
Presence of test report using standards as indicated in the declaration of conformity Test report reference : 08/55RC/00001901 / 165SAFC/0001201	✔ OK
Presence of CE symbol in the product label	✔ OK
Presence of instruction manual	✔ OK
Use of wiring harnesses compliant in the declaration of conformity	✔ OK
Presence of product description in the technical construction file	✔ OK

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Massimiliano Bertelli
General Manager - CELAB
www.celab.com

www.celab.com

Doc 121 Voluntary Certificate rev 3.03

■ AGF-AE-D Series PV/Solar Inverter Energy Meter

CSA(UL+ANSI) of AGF-AE-D/200



CSA Group

Certificate of Compliance

Certificate: 70171135 Master Contract: 271907
Project: 70171135 Date Issued: 2018-03-07

Issued to: Jiangsu ACREL Electric MFG. Co., Ltd.
No.5 DongMeng Road, NanZha Street,
JiangYin, Jiangsu 214405
CHINA
Attention: Huang miaomiao

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

C SP US

Issued by: Rohanvan Yatrap
Rohanvan Yatrap

PRODUCTS
CLASS - C331189 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards
CLASS - C331100 - POWER SUPPLIES-Distributed Generation Power Systems Equipment

Electricity Meter, Model AGF-AE-D/200, DIN Rail mounted.

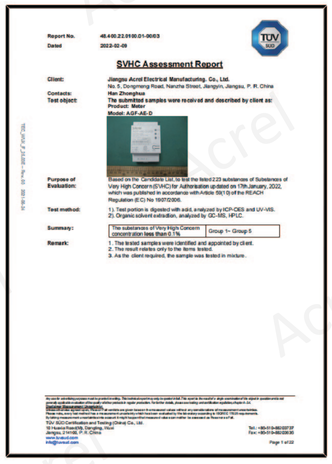
Notes:
For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS
CSA-C22.2 No.107.1-01-General Use Power Supplies
UL 1741-Second Edition-Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (January 28, 2010)

2020-09 Rev. 2018-03-28 Page 1

2.4 New Energy

REACH of AGF-AE-D/200



Report No. 48.400.22.0100.01-00/03
Dated 2022-02-09

SVHC Assessment Report

Client: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contacts: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product: Meter
Model: AGF-AE-D

Purpose of Evaluation: Based on the Candidate List, to test the listed 223 substances of Substances of Very High Concern (SVHC) for Authorisation up-dated on 17th January, 2022, which was published in accordance with Article 59(10) of the REACH Regulation (EC) No 1907/2006.

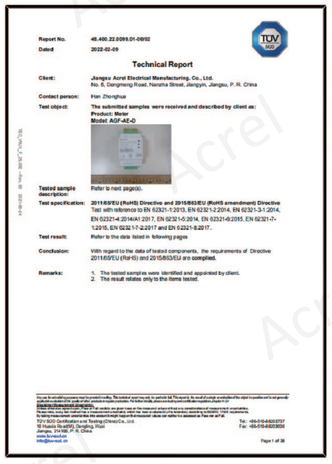
Test method: 1). Test portion is digested with acid, analyzed by ICP-OES and UV-VIS.
2). Organic solvent extraction, analyzed by GC-MS, HPLC.

Summary: The substances of Very High Concern concentration less than 0.1% | Group 1~ Group 5

Remark: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.
3. As the client required, the sample was tested in mixture.

TÜV SÜD Certification and Testing (China) Co., Ltd.
Jiangsu, 215163, P. R. China
Tel.: +86-512-66337337
Fax: +86-512-66338535
www.tuvsud.com
info@tuvsud.com

Page 1 of 22



Report No. 48.400.22.0089.01-00/02
Dated 2022-02-09

Technical Report

Client: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Contact person: Han Zhonghua
Test object: The submitted samples were received and described by client as:
Product: Meter
Model: AGF-AE-D
Tested sample description: Refer to next page(s).
Test specification: 2011/65/EU (RoHS) Directive and 2015/863/EU (RoHS amendment) Directive
Test: with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015, EN 62321-7-2:2017 and EN 62321-8:2017.
Test result: Refer to the data listed in following pages
Conclusion: With regard to the date of tested components, the requirements of Directive 2011/65/EU(RoHS) and 2015/863/EU are complied.
Remarks: 1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

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FCC of AGF-AE-D/200



SGS-CSTC Standards Technical Services Co., Ltd.

FEDERAL COMMUNICATIONS COMMISSION
Designation Number: CN1081
Test Firm Registration Number: 518911
A2LA Lab Code: 0530.01

Verification of Compliance

This Verification of Compliance is granted to below applicant for following designated equipment

VoC No.: SHEM2110012240401 MIC
Applicant Name: Acrel Co., Ltd.
Applicant Address: No.253, Yulv Rd.ad, Jiading, Shanghai, China
Product Name: Electricity Meter
Model No.: AGF-AE-D/200
Test Report Number(s): SHEM2110012240401

Based on tests conducted by SGS-CSTC Standards Technical Services Co., Ltd., on a submitted samples of above-mentioned product and found to comply with the technical requirements set out in ANSI C63.4 & 47 CFR PART 15B regulations for the evaluation of electromagnetic compatibility.

Please note:
(1) Applicant and/or manufacturer shall fully fulfill FCC 'SDoC' authorization procedure set out in FCC'S §2.906, §2.909, §2.925, §2.1074, §2.1077.
(2) Applicant and/or manufacturer shall comply additional requirements set out in §15.21, §15.105 and §15.19 in Title 47 CFR Part 15.
(3) This 'VoC' is ONLY accreditation of test result, ONLY serves as technical specifications compliance verification for aforementioned product from SGS Lab.
(4) This verification is only valid for the equipment and configuration described, in conjunction with the test report detailed above.

Parlam Zhan
Laboratory Manager

Date: 2021-11-

Copyright of this verification is owned by SGS-CSTC Standards Technical Services Co., Ltd. and may not be reproduced either there in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services which can accessible at http://www.sgs.com/en/terms_and-conditions

Member of SGS Group (Société Générale de Surveillance)

Page 1 of 1

CE of AGF-AE-D/200



CERTIFICATE No. : 216695IT/02

EC-ATTESTATION CERTIFICATE

Date/Place of Issue : 03.11.2022, Istanbul
Valid Until : 03.11.2027
Name of Applicant : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address of Applicant : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu, China
Name of Manufacturer : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address of Manufacturer : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu, China
Description of Product : Electricity Meter
Model(s) : # AGF-AE-D, AGF-AE-D/200, AGF-AE-D/100, AGF-AE-S, DSS3366-TO-A #
Assessment Performed : Conformity to Annex I's Applicable Paragraphs of 2014/30/EU Electromagnetic Compability Directive
Standard(s) : # EN IEC 61000-1:2021, EN IEC 61000-3-2:2019 # # EN 61000-3-3:2013+A1:2019 #
Base of Assessment : In the opinion of SGS the submitted technical file referenced as OCCE-SH-221085 satisfies the requirements of the Electromagnetic Compatibility Directive 2014/30/EU.
Assessor ID No. : TR-EC-944
Date/Place of Assessment : 20.10.2022 / Shanghai, China

Test reports in Technical file OCCE-SH-221085 are reviewed and found to be acceptable. The certificate is valid as long as the relevant directives and harmonised standards written above are current. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

CE

This EC-Attestation Certificate is only valid for the equipment and configuration described in conjunction with the data detailed above. It refers only to the sample submitted to SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş. for testing and certification. Any modifications made to the product shall immediately be reported to SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş. office in order to examine whether this certificate remains valid.

For and on behalf of
SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş.

This certificate is issued for the company under its General Conditions for Certification Services accessible at ... Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorised alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No. sertifika, SGS hizmetleri ... Burada formlarının alınmasına ve yukarıda belirtilen hizmetlerle sınırlı olmak üzere, SGS Hizmet Koşullarına uygun olarak düzenlenmiştir. Burada formlarının alınmasına ve yukarıda belirtilen hizmetlerle sınırlı olmak üzere, SGS Hizmet Koşullarına uygun olarak düzenlenmiştir. Sertifika sorgulama için www.sgs.com.tr adresini ziyaret edebilirsiniz.

SGSPAPER
20428767



CERTIFICATE No. : 216705IT/02

EC-ATTESTATION CERTIFICATE

Date/Place of Issue : 25.11.2022 , Istanbul
Valid Until : 25.11.2027
Name of Applicant : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address of Applicant : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu, China
Name of Manufacturer : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address of Manufacturer : No. 5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu, China
Description of Product : Electricity Meter
Model(s) : # AGF-AE-D, AGF-AE-D/200, AGF-AE-D/100, AGF-AE-S, DSS3366-TO-A #
Assessment Performed : Assessment of conformity with the requirements of Annex III and Clause 3 of Annex I of the Low Voltage Directive 2014/35/EU.
Standard(s) : # EN 61010-1:2010+A1:2019 #
Base of Assessment : In the opinion of SGS the submitted technical file referenced as OCCE-SH-221089 satisfies the requirements of the Low Voltage Directive 2014/35/EU.
Assessor ID No. : TR-EC-944
Date/Place of Assessment : 20.10.2022 / Jiangsu, China

Test reports in Technical file OCCE-SH-221089 are reviewed and found to be acceptable. The certificate is valid as long as the relevant directives and harmonised standards written above are current. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

CE

This EC-Attestation Certificate is only valid for the equipment and configuration described in conjunction with the data detailed above. It refers only to the sample submitted to SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş. for testing and certification. Any modifications made to the product shall immediately be reported to SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş. office in order to examine whether this certificate remains valid.

For and on behalf of
SGS Supreme Gözetme Etüd Kontrol Servisleri A.Ş.

This certificate is issued for the company under its General Conditions for Certification Services accessible at ... Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorised alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGSPAPER
20428771

IC of AGF-AE-D/200



INDUSTRY CANADA ATTESTATION OF CONFORMITY

Certificate No. FCSR2023052801
Product Electricity Meter
Brand Name logear
Model(s) No. Acrel
Series Model AGF-AE-D/200, AGF-AE-DP/100, AGF-AE-DI/200D, AGF-AE-D/2005, AGF-AE-DI/400, DSD3366-TO-A
Holder Acrel Co.,Ltd.
Address No.253, Yulv Road, Jiading District, Shanghai China
Manufacturer Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China
Report No. FCS20230525EB1

TEST STANDARDS:

ICES-003 Issue 7

This device has been tested and found to comply with the Canada standard(s), which is(are) Required by the government of Canada.The test results are indicated in the test report are applicable only to the test sample identified in the report.

Supplementary Information:

This product has been tested according to the following standard: ICES-003 Issue 7 and ANSI C63.4-2020. Specific test configurations and results are published by Flux Compliance Service Laboratory.

Approved by:

Jul. 06, 2023
Jack Wang/Manager

The statement is based on a single evaluation of the sample of above-mentioned product(s). It does not imply an assessment of the whole production.

Flux Compliance Service Laboratory
Tel: 0769-27289991 http://www.fcs-lab.com

2.4 New Energy

ACR10R-D Series PV/Solar Inverter Energy Meter

CE of ACR series


CERTIFICATE

ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Acrel Co., Ltd.

Company Address : No.253, Yulv Road, Jiading District, Shanghai, China

Manufacturer Name : Jiangsu Acrel Electric MFG. Co., Ltd.

Manufacturer Address : No.5, Dongmeng Road, Nansha Street, Jiangyin City, Jiangsu Province, China

Related Directives and Annex : 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive

Related Standards : EN 61326-1-2013; EN 61000-3-2:2019 EN 61000-3-3:2013+A1:2019; EN 61010-1:2010

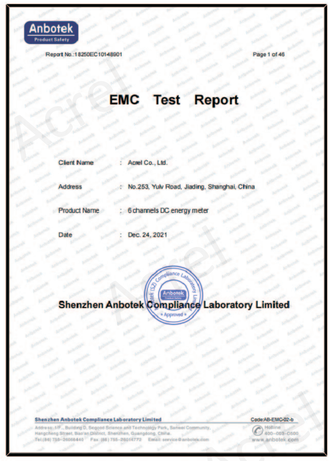
Product Name : ACR (ACR Network Multi-functional Power Meters)

Report No and Date : 182500IC10010301/182500EC10015601

Product Brand/Model/Type : Acrel, ACR220EL, ACR220EL-H", ACR230EL-H", ACR330ELH", ACR330ELH", ACR330EL", ACR330EL-D", ACR330EL-D", ACR330EL-H", ACR330EL-H", ACR330EL", ACR330EL-H

2.5 Data center/Tower/Base Station

IEC of AMC16L-DETT


Anbotek
Product Safety

Report No.: I:EDOEC10148001 Page 1 of 46

EMC Test Report

Client Name : Acrel Co., Ltd.
Address : No.253, Yulv Road, Jiading, Shanghai, China
Product Name : 6 channels DC energy meter
Date : Dec. 24, 2021

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited Code:AB-EMC02-b


Anbotek
Product Safety

Report No.: I:EDOEC10148001 Page 4 of 46

TEST REPORT

Applicant : Acrel Co., Ltd.
Manufacturer : Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Product Name : 6 channels DC energy meter
Model No. : AMC16L-DETT, AMC16-DETT
Trade Mark : Acrel
Rating(s) : Supply Power: DC40-60V
Measuring Voltage input: DC0-48V
Measuring Current input: DC0-5V
Test Standard(s) : EN 61326-1: 2013;
(IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4;
IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8;)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion.The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 61326-1 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Dec. 15, 2021
Date of Test: Dec. 15~24, 2021
Prepared By: (Yee Huang)
Approved & Authorized Signer: (KongRong Jin)

Shenzhen Anbotek Compliance Laboratory Limited Code:AB-EMC02-b

2.6 Electrical Safety

■ Medical Isolation Power Supply Insulation Monitoring Device

CE of AID series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate No.: TA 385139242

Product: Alarm and Display Instrument
Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd. No.2, Dongmeng Road, Nanzhu Street, Jiangyan City, Jiangsu Province, China
Type / Model(s) / Trademark: AID-B, AID120, AID150, AID200
Exemption / Technical Specification: EC 18-36V
EU Directive: 2014/30/EU
Standard(s) / Product Certification Basis: EN 61326-1:2013 EN 61326-2-4:2013
Test Report: SOC19-300474-10-EMC
Comments: N/A

According to the above stated test report(s) submitted, all samples with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in accordance with its declaration of conformity following the respective EU Directive(s) and Annex.

The test results relate only to the items tested. The manufacturer is responsible for the results of testing performed on the equipment/production or an approved sample(s) and the continuing conformity of the test report. TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the production exempt product or the production process. If this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore the associated Certificate to remain valid. It authorizes the Exempt Certificate for a Certificate of Conformity on a voluntary or mandatory standard exempt a specified product on sale.

2019-08-3 Date of Issue
Yun Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

The validity of this certificate is 5 years from the date of issue(can be checked on the "TÜV AUSTRIA's Homepage. Any alteration or duplication of this document is not allowed. If this device is given to TÜV AUSTRIA for a further assessment, the certificate body's fee has to be paid at the date of issue and will be for the benefit of the applicant's instructions, if any.

TÜV AUSTRIA CERT GMBH
Vor Eichenwald 1 · 2345 Brunn/Gebirge
E-mail: info@tuev.at
QMF-TIC-Cert-Template Rev.00

CE of AIL series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 385163243

Product: Insulation Fault Locator
Applicant: Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai, China
Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd. No.2, Dongmeng Road, Nanzhu Street, Jiangyan City, Jiangsu Province, China
Type / Model(s) / Trademark: AIL 100-A, AIL 100-E, AIL 150-A, AIL 150-E, AIL 200-10
Exemption / Technical Specification: Supply voltage: DC 18-30V Rated voltage: AC 220V 50Hz
EU directive: 2014/30/EU
Standard(s) / Product Certification Basis: EN 61326-1:2013 EN 61326-2-4:2013
Test Report: SOC19C-300184-10-EMC
Comments: N/A

According to the above stated test report(s) submitted, all samples with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in accordance with its declaration of conformity following the respective EU Directive(s) and Annex.

The test results relate only to the items tested. The manufacturer is responsible for the results of testing performed on the equipment/production or an approved sample(s) and the continuing conformity of the test report. TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the production exempt product or the production process. If this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processing may require the repetition of all or some of the qualification tests in order for the test report and therefore the associated Certificate to remain valid. It authorizes the Exempt Certificate for a Certificate of Conformity on a voluntary or mandatory standard exempt a specified product on sale.

2019-08-23 Date of Issue
Yun Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

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Vor Eichenwald 1 · 2345 Brunn/Gebirge
E-mail: info@tuev.at
QMF-TIC-Cert-Template Rev.00

2.6 Electrical Safety

CE of AIM series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 386160244

Product: Medical Insulation Monitor Applicant: Acrel Co., Ltd. No.253, Yuhr Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd. No.8, Dongcheng Road, Nanxincun Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: AIM M 3, AIM M100, AIV M300, AIM M500

Description / Technical Specification: Rated voltage: AC 230V 50/60Hz; Supply Voltage: DC 18-36V; Response value:50-999KΩ; Rated current: AC 5-50A /50/60Hz

EU directive: 2014/35/EU

Standard(s) / Product - Certification Basis: EN 61326-1:2013

Test Report: SCQ19I-332489A-19-EMC

Comments: N/A

According to the above-stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed on the equipment submitted and / or on approved laboratory and / or manufacturer's reviews of the test report by TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the serial production of the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processes may require the inspection of all or some of the qualification tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity are a binding contract between the client concerning a specified product are valid.

2019-09-11
Date of Issue

Ivan Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable CE directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

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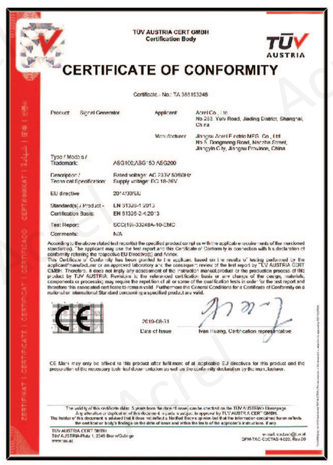
TÜV AUSTRIA CERT GMBH
Deutschstraße 10
A-1230 Wien

e-mail: cert@tuv.at
www.tuv.at

TÜV AUSTRIA Phone + 43 (0) 50 454 1000
TÜV AUSTRIA Fax + 43 (0) 50 454 1000

CB-FAC-CERT-4020-11-Rev-00

CE of ASG series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 381163346

Product: Signal Generator Applicant: Acrel Co., Ltd. No.253, Yuhr Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd. No.8, Dongcheng Road, Nanxincun Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ASG100,ASG150 ASG200

Description / Technical Specification: Rated voltage: AC 230V 50/60Hz; Supply voltage: DC 18-36V

EU directive: 2014/35/EU

Standard(s) / Product - Certification Basis: EN 61326-1:2013; EN 61326-2-4:2013

Test Report: SCQ19I-332489A-19-EMC

Comments: N/A

According to the above-stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed on the equipment submitted and / or on approved laboratory and / or manufacturer's reviews of the test report by TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the serial production of the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processes may require the inspection of all or some of the qualification tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity are a binding contract between the client concerning a specified product are valid.

2019-09-11
Date of Issue

Ivan Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable CE directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

This validity of this certificate date. It ceases from the date of issue can be checked on the TÜV AUSTRIA Homepage.
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TÜV AUSTRIA CERT GMBH
Deutschstraße 10
A-1230 Wien

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CB-FAC-CERT-4020-11-Rev-00

IEC of AIL series


SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY

TEST REPORT

No. XNZ2020179

Name of Sample: Medical Intelligent Insulation Monitor/ Insulation fault locator/Signal Generator

Model / Type: AIM-M200/AIL150/ASG150

Sample Number: JYZ20050800005/JYZ20050800001/JYZ20050800010

Applicant: Acrel Co., Ltd.

Manufacturer: Acrel Co.,Ltd.

Test Type: Commissioned Test

Date Issued: Jun. 15, 2020

Page 1 of 13

Guangdong Institute of Metrology Test Report No.XNZ2020179

(1) Basic Information

Name of Sample	Medical Intelligent Insulation Monitor /Insulation fault locator /Signal Generator	Trade Mark	——
Model / Type	AIM-M200/AIL150/ASG150	Class	Relative uncertainty: ±10%, ±10kΩ
Sample No.	JYZ20050800005/JYZ20050800001 /JYZ20050800010	Sample quantity	1
Applicant	Acrel Co., Ltd.		
Applicant Address	No. 253, Yuhr Road, Jiading District, Shanghai, China		
Manufacturer	Acrel Co., Ltd.		
Test Site	Environment and EMC Lab of Dongguan Branch		
Test Conditions	Temperature: (22~28) ℃ Humidity: (45~60) %RH		
Date Received	May 18, 2020	Commission No.	WT20201193
Test Date	May 18, 2020 to Jun. 04, 2020	Test Type	Commission
Test Item	1. Electrostatic discharge immunity tests; 2. Electromagnetic field tests; 3. Burst tests; 4. Surge immunity tests; 5. Conducted RF tests; 6. Power frequency magnetic field tests; 7. Emission – Mains terminal disturbance; 8. Emission – Electromagnetic radiation disturbance.		
Test Standard	1. IEC 61326-2-4 (Edition 2.0): 2012 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-4: Particular requirements – Test configuration, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 2. IEC 61000-6-4 (Edition2.0): 2009 Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques-Power frequency magnetic field immunity test 3. CISPR 11 (Edition 6.2): 2019 Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement		
Conclusion	PASS	(End of Report)	
Remarks	——		

Tested by: Checked by: Approved by:

IEC of AIM series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 386260-19

Product: Medical Intelligent Insulation Monitor Applicant: Acrel Co., Ltd. No.253, Yuhr Road, Jiading District, Shanghai, China

Manufacturer: Acrel Co., Ltd. No.253, Yuhr Road, Jiading District, Shanghai, China

Type / Models / Trademark: AIM-M200/AIL150/ASG150, AIM-M500, AIM-M300

Description / Technical Specification: Double refer to the test report

EU directive: 2014/35/EU

Standard(s) / Product - Certification Basis: IEC 61557-8:2014 (Edition 3.0); IEC 61557-8:2014 (Edition 3.0); IEC 61557-8:2014 (Edition 3.0); IEC 61326-2-4:2012 (Edition 2.0); IEC 61000-6-4:2009 (Edition 2.0); CISPR 11:2019 (Edition 2.0)

Test Report: XNZ2020179, XNZ2020179

Comments: N/A

According to the above-stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed on the equipment submitted and / or on approved laboratory and / or manufacturer's reviews of the test report by TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the serial production of the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processes may require the inspection of all or some of the qualification tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity are a binding contract between the client concerning a specified product are valid.

2020-05-25
Date of Issue

Ivan Huang, Certification representative

This validity of this certificate date. It ceases from the date of issue can be checked on the TÜV AUSTRIA Homepage.
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The holder of this document is obliged that it does not reflect a false impression. Expired certificates, false reports, this certification body's findings on the date of issue and within the limits of the applicant's instructions, if any.

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IEC of ASG series


TÜV AUSTRIA CERT GMBH
Certification Body

TÜV AUSTRIA

CERTIFICATE OF CONFORMITY

Certificate - No.: TA 386160245

Product: Signal Generator Applicant: Acrel Co., Ltd. No.253, Yuhr Road, Jiading District, Shanghai, China

Manufacturer: Jiangsu Acrel Electric MFG. Co., Ltd. No.8, Dongcheng Road, Nanxincun Street, Jiangyin City, Jiangsu Province, China

Type / Models / Trademark: ASG100,ASG150,ASG200

Description / Technical Specification: Rated voltage: AC 230V 50/60Hz; Supply voltage: DC 18-36V;

EU directive: 2014/35/EU

Standard(s) / Product - Certification Basis: EN 61326-1:2013; EN 61326-2-4:2013

Test Report: SCQ19I-332489A-19-EMC

Comments: N/A

According to the above-stated test report(s) the specified product complies with the applicable requirements of the mentioned standard(s). The applicant may use the test report and this Certificate of Conformity in connection with his declaration of conformity referring the respective EU Directive(s) and Annex.

This Certificate of Conformity has been granted to the applicant based on the results of testing performed on the equipment submitted and / or on approved laboratory and / or manufacturer's reviews of the test report by TÜV AUSTRIA CERT GMBH. Therefore, it does not imply any assessment of the serial production of the production process of this product by TÜV AUSTRIA. Revisions to the referenced certification basis or any changes of the design, materials, components or processes may require the inspection of all or some of the qualification tests in order for the test report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity are a binding contract between the client concerning a specified product are valid.

2019-10-31
Date of Issue

Ivan Huang, Certification representative

CE Mark may only be affixed to this product after fulfillment of all applicable EU directives for this product and the preparation of the necessary technical documentation as well as the conformity declaration by the manufacturer.

This validity of this certificate date. It ceases from the date of issue can be checked on the TÜV AUSTRIA Homepage.
Any alterations in duplication of this document in parts is subject to approval by TÜV AUSTRIA CERT GMBH.
The holder of this document is obliged that it does not reflect a false impression. Expired certificates, false reports, this certification body's findings on the date of issue and within the limits of the applicant's instructions, if any.

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2.6 Electrical Safety

IEC of GGF-I/GGF-O



Test Report

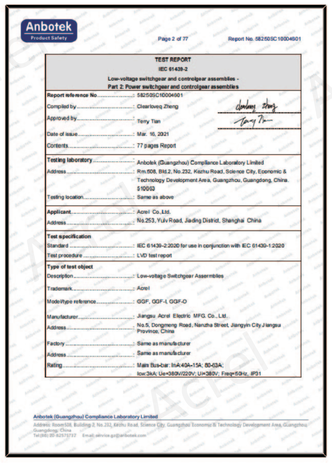
Client Name : Acrel Co.,Ltd.

Address : No.253, Yulv Road, Jiading District, Shanghai China

Product Name : Low-voltage Switchgear Assemblies

Date : Mar. 16, 2021

Anbotek (Guangzhou) Compliance Laboratory Limited



Anbotek

Page 2 of 77 Report No. SB2503C10004601

TEST REPORT
IEC 61439-2
Low-voltage switchgear and controlgear assemblies -
Part 2: Power switchgear and controlgear assemblies

Report reference No.	SB2503C10004601
Compiled by	Clearloveq Zheng
Approved by	Terry Tian
Date of issue	Mar. 16, 2021
Contents	77 pages Report
Testing laboratory	Anbotek (Guangzhou) Compliance Laboratory Limited
Address	Rm.508, Bld.2, No.232, Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China. 510663
Testing location	Same as above
Applicant	Acrel Co.,Ltd.
Address	No.253, Yulv Road, Jiading District, Shanghai China
Test specification	
Standard	IEC 61439-2:2020 for use in conjunction with IEC 61439-1:2020
Test procedure	LVD test report
Type of test object	
Description	Low-voltage Switchgear Assemblies
Trademark	Acrel
Model/type reference	GGF, GGF-I, GGF-O
Manufacturer	Jiangsu Acrel Electric MFG. Co., Ltd.
Address	No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China
Factory	Same as manufacturer
Address	Same as manufacturer
Rating	Main Busbar: IHA/4A=15A; 80-63A; low:3kA; Ue=380V/220V; Ui=380V; Freq=50Hz; IP31

2.7 Smart Gateway

- Anet series

IEC of Anet series



RED-Health Test Report

Client Name : Acrel Co., Ltd.

Address : No.253, Yulv Road, Jiading, Shanghai, China

Product Name : Anet Smart IoT Gateway

Date : Mar. 14, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Anbotek

Report No.: 18220WC20030804W Page 1 of 61

RED-Radio Test Report

Client Name : Acrel Co., Ltd.

Address : No.253, Yulv Road, Jiading, Shanghai, China

Product Name : Anet Smart IoT Gateway

Date : Mar. 14, 2022

Shenzhen Anbotek Compliance Laboratory Limited

2.7 Smart Gateway

CE of Anet


MiCOM Labs

CERTIFICATE of EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE
SHEA695-EU/ 17 Mar 2022 / Rev A
Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
Anet Smart IoT Gateway

Approval Holder Name:
Acrel Co., Ltd.

CE

Gordon Hurst, Product Certifier

This Certificate is issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

FCC of AF-GSM500


ATTESTATION OF CONFORMITY

Certificate No. FCSR220230714101
Product Smart DTU
Brand Name Acrel
Model(s) No. AF-GSM500-4G
Series Model AF-GSM500-4G-2S,AF-GSM500-4G-6S,AF-GSM500-CE-2S,AF-GSM500-CE-6S
Holder Acrel Co.,Ltd.
Address No.253, Yulv Road, Jiading District, Shanghai China
Manufacturer Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address No.5, Dongmeng Road, Nansha Street, Jiangyin City Jiangsu Province, China
Report No. FCS220307141E01

TEST STANDARDS:

FCC PART15 SUBPART B:

he above product has been tested by us with the listed standard and found in compliance with the Code of Federal Regulations, Title 47-Telecommunications, FCC Rules and Regulations Part 15, Subpart B and the measurement procedure according to ANSI C63.4:2014. The label must be complying with the (a) of the Section 15.19 labeling requirements.

Supplementary Information:

The product here with has been successfully tested according to the Code of Federal Regulations, Title 47-Telecommunications. Test samples were in an engineering configuration. FCC Conformity Letter of Authorization for marketing will be required based on the final product when needed. Specific test configurations and results are published by Flux Compliance Service Laboratory.

FC

Approved by:
July. 20, 2022
Jack Wang/Manegerial

The statement is based on a single evaluation of the sample of above mentioned product(s). It does not imply an assessment of the whole production.

Flux Compliance Service Laboratory
Tel: 0769-27288991 http://www.fcs-lab.com

- AWT100 series wireless communication terminal

CE-RED of AWT series


MiCOM Labs

CERTIFICATE of EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE
SHEA695-EU/ 24 Dec 2021 / Rev A
Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
Conversion module

Approval Holder Name:
Acrel Co., Ltd.

CE

Gordon Hurst, Product Certifier

This Certificate is issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

FCC of AWT series


SGS-CSTC Standards Technical Services Co., Ltd.

Verification of Compliance

This Verification of Compliance is granted to below applicant for following designated equipment:

VAC No.: SHEM2110101802901MC
Applicant Name: Acrel Co.,Ltd.
Applicant Address: No.253, Yulv Road, Jiading,Shanghai,China
Product Name: Conversion module
Model No.: AWT100 RGHVN, AWT100
Test Report Number(s): SHEM2110101802901

Based on tests conducted by SGS-CSTC Standards Technical Services Co., Ltd. on submitted samples of above mentioned product and found to comply with the technical requirements set out in ANSI C63.4 & 47 CFR PART 15B regulations for the evaluation of electromagnetic compatibility.

Please note:
(1) Applicant and/or manufacturer shall fully fulfill FCC 15.21, 15.105 and 15.19 as fully comply regulations 47 CFR Part 15.
(2) Applicant and/or manufacturer shall comply additional requirements set out in 15.21, 15.105 and 15.19 as fully comply regulations 47 CFR Part 15.
(3) This VoC is ONLY a confirmation of test result. ONLY serves as technical specifications compliance verification for aforementioned product from SGS-Lab.
(4) This verification is only valid for the equipment and configuration described. In comparison with the test report detailed above.

FC

Param Zhan
Laboratory Manager

Date: 2021-11-12

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Page 1 of 1

SGS-CSTC Standards Technical Services Co., Ltd.

Verification of Compliance

This Verification of Compliance is granted to below applicant for following designated equipment:

VAC No.: SHEM2110101802901MC
Applicant Name: Acrel Co.,Ltd.
Applicant Address: No.253, Yulv Road, Jiading,Shanghai,China
Product Name: Conversion module
Model No.: AWT100 WIFI/BLE, AWT100 WIFI/HVC, AWT100 WIFI, AWT100
Test Report Number(s): SHEM2110101802901

Based on tests conducted by SGS-CSTC Standards Technical Services Co., Ltd. on submitted samples of above mentioned product and found to comply with the technical requirements set out in ANSI C63.4 & 47 CFR PART 15B regulations for the evaluation of electromagnetic compatibility.

Please note:
(1) Applicant and/or manufacturer shall fully fulfill FCC 15.21, 15.105 and 15.19 as fully comply regulations 47 CFR Part 15.
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FC

Param Zhan
Laboratory Manager

Date: 2021-11-12

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SGS-CSTC Standards Technical Services Co., Ltd.

Verification of Compliance

This Verification of Compliance is granted to below applicant for following designated equipment:

VAC No.: SHEM2110101802901MC
Applicant Name: Acrel Co.,Ltd.
Applicant Address: No.253, Yulv Road, Jiading,Shanghai,China
Product Name: Conversion module
Model No.: AWT100 WIFI/BLE, AWT100 WIFI/HVC, AWT100 WIFI, AWT100
Test Report Number(s): SHEM2110101802901

Based on tests conducted by SGS-CSTC Standards Technical Services Co., Ltd. on submitted samples of above mentioned product and found to comply with the technical requirements set out in ANSI C63.4 & 47 CFR PART 15B regulations for the evaluation of electromagnetic compatibility.

Please note:
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FC

Param Zhan
Laboratory Manager

Date: 2021-11-12

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TIPS:

1.CSA

It is the abbreviation of Canadian Standards Association (Canadian Standards Association). It was founded in 1919 and is Canada's first non-profit organization dedicated to formulating industrial standards. Electronics, electrical appliances and other products sold in the North American market need to obtain safety certification.

2.EAC

It is certified by the countries of the Customs Union. The Customs Union is an economic bloc led by Russia, including Russia, Belarus (formerly known as "Belarus"), and Kazakhstan. In 2015, EAC certification became mandatory, and products with EAC certification can be directly imported and sold in these three countries.

3.MID

Measuring Instruments Directive (MID for short) 2004/22/EC, the European Union has officially notified the directive on April 30, 2004, and it will be enforced on October 30, 2006. It is used by the European Union to supervise and manage Regulations for measuring instruments, common throughout Europe. In addition, the Measuring Instruments Directive offers manufacturers the scope to choose a conformity assessment route for products entering Europe. The Directive defines ten categories of measuring instruments, including water meters, gas meters and volume conversion equipment, electric energy meters, heat meters, mileage meters, exhaust gas analyzers, automatic weighing instruments, etc., covering 95% of the EU market Measuring instruments for sale.

4.ROSH / REACH

REACH: EC 1907/2006 "Regulations on Registration, Evaluation, Authorization and Restriction of Chemicals" (briefly

called REACH)

ROHS: 2002/95/EC (2011/65/EU)

ROHS is a directive promulgated by the European Union, which needs to be implemented by member states after conversion into regulations; while REACH regulations

Effective immediately upon promulgation.

ROHS: The Restriction of the use of certain Hazardous Substances in electrical and electronic equipment, that is, the "Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment". The main control is the restricted use of six harmful substances in electronic and electrical products, including lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers;

REACH controls all commodities and requires the registration, evaluation, authorization and restriction of hazardous chemical substances.

ROHS controls the content of hazardous substances in homogeneous single substances;

REACH is the control of the content of a certain harmful chemical substance in a product or substance in the total amount of the product or substance.

Several hazardous substances for priority evaluation have been added to ROHS2.0, which are included in the REACH regulation, but the two are irreplaceable.

5.CB / IEC

IEC is the abbreviation of International Electrotechnical Commission (International Electrotechnical Commission). It is a non-governmental international organization and a Grade A advisory body of the United Nations Social and Economic Council. It was formally established in September 1906 and is the earliest professional international standardization organization in the world. Headquartered in Geneva. After the establishment of ISO in 1947, IEC was merged into ISO as an electrical department, but it still maintained its independence technically and financially. According to the new agreement between ISO and IEC in 1976, the two organizations are legally independent organizations. IEC is responsible for international standardization in the field of electrical and electronic fields, and ISO is responsible for other fields. The purpose of IEC is to promote international cooperation on standardization and related issues in the fields of electrical and electronic, and to enhance mutual understanding. For this purpose, publications including International Standards are published and National Committees are expected to use these International Standards where their national conditions permit. The IEC's field of work includes electrotechnical aspects of electricity, electronics, telecommunications and atomic energy. More than 3,000 international electrical standards have been formulated.

The CB system (IEC system for conformity testing and certification of electrical products) is an international system operated by IECEE. The certification bodies of IECEE member states test the safety performance of electrical products based on IEC standards. The test results are CB test reports and CB The test certificate is a mutually recognized system among IECEE member states. The purpose is to reduce barriers to international trade that arise from having to meet different national certification or approval criteria. IECEE is the abbreviation of International Electrotechnical Commission Electrical Product Qualification Testing and Certification Organization.

The CB (Certification Body) process is established based on the international agreement of the IECEE "World System for Conformity Testing and Certification of Electrotechnical Products". It is an agreement between national certification bodies within the system, dedicated to the mutual recognition of audit results for electrotechnical products.

6.CE

CE stands for European Unification (CONFORMITE EUROPEENNE). CE certification is a certification related to safety control by the European Union to ensure the most basic safety guarantee of products, that is, it is limited to the basic safety requirements that the product does not endanger the safety of humans, animals and goods, rather than general quality requirements. The Harmonized Directive only stipulates the main requirements. General instruction requirements are standard tasks. CE certification controls product safety, regardless of product quality, and the CE mark is also a safety certification mark. Products with the CE mark can enter the European market.