CMA 240020349957

CNAS 申国认可 国际互认 检测 TESTING CNAS L0685

TEST REPORT

№: JW232187E

Sample Name	Power Quality Analyzer
Sample Type	APView
Client	Acrel Co., LTD.
Manufacturer	Jiangsu Acrel Electrical Manufacturing Co., LTD.
Test classification	Performance Test
Issued Date	Aug. 10, 2023

Xuchang KETOP Testing Research Institute Co., Ltd.

(National Quality Inspection & Testing Center for

Relay Protection and Automation Equipment)

№：JW232187E

Sample Name: Power Quality Analyzer **Sample Type:** APView **Sample Specification:** Power supply circuit: AC220V 50Hz AC circuit: AC57.74V 5A 50Hz **Sample Quantity:** 1 **Sample №:** YPJW232187-1 **Sample Received Date:** Jul. 10, 2023 **Sample Received Status:** Visual check acceptable, performance to be checked	**Client:** Acrel Co., LTD. **Address:** No.253 Yulv Road Jiading District, Shanghai, China **Manufacturer:** Jiangsu Acrel Electrical Manufacturing Co., LTD. **Address:** No.5 Dongmeng Road, Dongmeng industrial Park, Nanzha Street, Jiangyin City, Jiangsu Province, China **Testing Site:** Xuchang KETOP Testing Research Institute Co., Ltd.

Testing date: Jul. 11, 2023 - Jul. 28, 2023

Testing for:

☑Consignment Test ☐Certification Test ☐Licence Test ☐Supervision Test ☐Other test

Test classification:

☐Type Test ☑Performance Test ☐Others

References:

International standards:

IEC 61000-4-2:2008 IEC 61000-4-3:2020 IEC 61000-4-4:2012 IEC 61000-4-5:2014

National standard

GB/T 7261-2016 Basic testing method for relaying protection and security automatic equipment

GB/T 19862-2016 General requirements for monitoring equipment of power quality

Enterprise standard

Test technical requirements of APView Power Quality Analyzer (Assess criteria)

Conclusion:

Based on the test results described in this report, our lab declares that the test items are in conformance with the requirements of references above.

Approved by: 李亚萍

Issued date: Aug. 10, 2023

Remark: /

Test Items Summary

№	Test Items	Standards	Verdict
Electrical Performance & Safety			
1	Visual inspection	IEC 60255-27:2023	Pass
2	Monitoring requirements	GB/T 19862-2016 Enterprise standard	Pass
3	Display function	GB/T 19862-2016 Enterprise standard	Pass
4	Communication interface	GB/T 19862-2016 Enterprise standard	Pass
5	PQDIF data format	GB/T 19862-2016 Enterprise standard	Pass
6	Access management function	GB/T 19862-2016 Enterprise standard	Pass
7	Setting function	GB/T 19862-2016 Enterprise standard	Pass
8	Time synchronization function	GB/T 19862-2016 Enterprise standard	Pass
9	Binary input / output function	GB/T 19862-2016 Enterprise standard	Pass
10	Time accumulation and marking function	GB/T 19862-2016 Enterprise standard	Pass
11	Recording and storage	GB/T 19862-2016 Enterprise standard	Pass
12	Storage capacity	GB/T 19862-2016 Enterprise standard	Pass
13	Data retention function after power failure	GB/T 19862-2016 Enterprise standard	Pass
14	Burden	IEC 60255-1:2022	Pass
15	Insulation resistance	IEC 60255-27:2023	Pass
16	Dielectric withstand	IEC 60255-27:2023	Pass
17	Impulse voltage	IEC 60255-27:2023	Pass
18	Operative ranges of power supply voltage	GB/T 19862-2016 IEC 60255-1:2022	Pass
19	Operative ranges of power supply frequency	GB/T 19862-2016 IEC 60255-1:2022	Pass
20	Dry heat - operational	IEC 60068-2-2:2007	Pass
21	Cold - operational	IEC 60068-2-1:2007	Pass
22	Damp heat, cyclic	IEC 60068-2-30:2005	Pass
23	Vibration endurance	IEC 60255-21-1:1988 IEC 60068-2-6:2007	Pass
24	Shock withstand	IEC 60255-21-2:1988 IEC 60068-2-27:2008	Pass

№	Test Items	Standards	Verdict
25	Voltage input circuit	GB/T 19862-2016 Enterprise standard	Pass
26	Current input circuit	GB/T 19862-2016 Enterprise standard	Pass
27	Degrees of protection provided by enclosure	IEC 60529:2013	Pass
28	Transient voltage	Enterprise standard	Pass
EMC			
1	Electrostatic discharge immunity test	GB/T 19862-2016 IEC 61000-4-2:2008	Pass
2	Radiated electromagnetic field immunity test	GB/T 19862-2016 IEC 61000-4-3:2020	Pass
3	Electrical fast transient/burst immunity test	GB/T 19862-2016 IEC 61000-4-4:2012	Pass
4	Surge immunity test	GB/T 19862-2016 IEC 61000-4-5:2014	Pass

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Electrical Performance & Safety Test Report

Sample Name: Power Quality Analyzer **Sample Type:** APView **Sample Specification:** Power supply circuit: AC220V 50Hz AC circuit: AC57.74V 5A 50Hz **Sample Quantity**:1 **Sample №**: YPJW232187-1	**Client:** Acrel Co., LTD. **Manufacturer:** Jiangsu Acrel Electrical Manufacturing Co., LTD. **Testing Site:** Xuchang KETOP Testing Research Institute Co., Ltd.

Testing for:

☐Type Test ☑Performance Test ☐Others

References:

National standard

GB/T 7261-2016 Basic testing method for relaying protection and security automatic equipment

GB/T 19862-2016 General requirements for monitoring equipment of power quality

Enterprise standard

Test technical requirements of APView Power Quality Analyzer (Assess criteria)

Conclusion:

Based on the test results described in this report, our lab declares that the test items are in conformance with the requirements of references above.

Tested by:刘韶婧 **Verified by:**杨丽林 **Audited by:**贺春

Date: Jul. 28, 2023

Remark: /

Test Items Summary

№	Test Items	Standards	Verdict
1	Visual inspection	IEC 60255-27:2023	Pass
2	Monitoring requirements	GB/T 19862-2016 Enterprise standard	Pass
3	Display function	GB/T 19862-2016 Enterprise standard	Pass
4	Communication interface	GB/T 19862-2016 Enterprise standard	Pass
5	PQDIF data format	GB/T 19862-2016 Enterprise standard	Pass
6	Access management function	GB/T 19862-2016 Enterprise standard	Pass
7	Setting function	GB/T 19862-2016 Enterprise standard	Pass
8	Time synchronization function	GB/T 19862-2016 Enterprise standard	Pass
9	Binary input / output function	GB/T 19862-2016 Enterprise standard	Pass
10	Time accumulation and marking function	GB/T 19862-2016 Enterprise standard	Pass
11	Recording and storage	GB/T 19862-2016 Enterprise standard	Pass
12	Storage capacity	GB/T 19862-2016 Enterprise standard	Pass
13	Data retention function after power failure	GB/T 19862-2016 Enterprise standard	Pass
14	Burden	IEC 60255-1:2022	Pass
15	Insulation resistance	IEC 60255-27:2023	Pass
16	Dielectric withstand	IEC 60255-27:2023	Pass
17	Impulse voltage	IEC 60255-27:2023	Pass
18	Operative ranges of power supply voltage	GB/T 19862-2016 IEC 60255-1:2022	Pass
19	Operative ranges of power supply frequency	GB/T 19862-2016 IEC 60255-1:2022	Pass
20	Dry heat - operational	IEC 60068-2-2:2007	Pass
21	Cold - operational	IEC 60068-2-1:2007	Pass
22	Damp heat, cyclic	IEC 60068-2-30:2005	Pass
23	Vibration endurance	IEC 60255-21-1:1988 IEC 60068-2-6:2007	Pass
24	Shock withstand	IEC 60255-21-2:1988 IEC 60068-2-27:2008	Pass
25	Voltage input circuit	GB/T 19862-2016 Enterprise standard	Pass

№	Test Items	Standards	Verdict
26	Current input circuit	GB/T 19862-2016 Enterprise standard	Pass
27	Degrees of protection provided by enclosure	IEC 60529:2013	Pass
28	Transient voltage	Enterprise standard	Pass

Test Instruments / Equipment

№	Name	Type	Number	Period of validity
1	Digital multi-meter	34410A	K0301-425	09/20/2022 - 09/19/2023
2	Insulation tester	1508	K0301-799	10/08/2022 - 10/07/2023
3	Time synchronization system tester	FH-GX	K0305-961	08/16/2022 - 08/15/2023
4	Relay protection tester	ONLLY-AHQ660	K0401-2047	05/30/2023 - 05/29/2024
5	Relay protection tester	CMC356	K0401-418	02/03/2023 - 02/02/2024
6	Relay protection tester	CMC256plus	K0401-419	02/02/2023 - 02/01/2024
7	Time Synchronization Access Box	CMIRIG B	K0401-692	09/16/2022 - 09/15/2023
8	Intelligent Distribution Terminal Automation Monitoring System	DK-PTS	K0401-942	04/20/2023 - 04/19/2024
9	Programmable AC Power Supply	WAPSX-11003kVA	K0410-2130	09/16/2022 - 09/15/2023
10	Tester for degrees of protection provided by enclosure	/	K0502-2058	09/13/2022 - 09/12/2023
11	Waterproof Test Device (Open Type)	IPX1～X8	K0503-2014	05/11/2023 - 05/10/2024
12	Dust chamber	SC-010B	K0503-236	05/17/2023 - 05/16/2024
13	Digital Caliper Safety comprehensive analyzer	19032-P	K0510-919	02/09/2023 - 02/08/2024
14	Temperature and Humidity Alternating Test Chamber	SDJ210FA	K0601-254	05/18/2023 - 05/17/2024
15	Temperature Test Chamber	MTU-10S/14	K0601-497	03/03/2023 - 03/02/2024
16	Vibration test system	DC-6000-60	K0602-1624	05/20/2023 - 05/16/2024
17	Vibration test system	DC-6000-60	K0602-1625	05/20/2023 - 05/16/2024
18	Impulse tester	P6R	K0701-218	01/11/2023 - 01/10/2024

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EMC Test Report

Sample Name: Power Quality Analyzer **Sample Type:** APView **Sample Specification:** Power supply circuit: AC220V 50Hz AC circuit: AC57.74V 5A 50Hz **Sample Quantity:** 1 **Sample №:** YPJW232187-1	**Client:** Acrel Co.,LTD. **Manufacturer:** Jiangsu Acrel Electrical Manufacturing Co., LTD. **Testing Site:** Xuchang KETOP Testing Research Institute Co., Ltd.

Testing for:

☐Type Test ☑Performance Test ☐Others

References:

International standards:

IEC 61000-4-2:2008 IEC 61000-4-3:2020 IEC 61000-4-4:2012 IEC 61000-4-5:2014

National standard:

GB/T 19862-2016 General requirements for monitoring equipment of power quality

Enterprise standard:

Test technical requirements of APView Power Quality Analyzer (Assess criteria)

Conclusion:

Based on the test results described in this report, our lab declares that the test items are in conformance with the requirements of references above.

Tested by: 陈希艳 **Verified by:** 秦海晶 **Audited by:** 贺春

Date:Jul. 28, 2023

Remark: /

Test summary

№	Test Items	Standards	Verdict
1	Electrostatic discharge immunity test	GB/T 19862-2016 IEC 61000-4-2:2008	Pass
2	Radiated electromagnetic field immunity test	GB/T 19862-2016 IEC 61000-4-3:2020	Pass
3	Electrical fast transient/burst immunity test	GB/T 19862-2016 IEC 61000-4-4:2012	Pass
4	Surge immunity test	GB/T 19862-2016 IEC 61000-4-5:2014	Pass

№：JW232187E

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