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CNAS L0730

SOUTH CHINA NATIONAL CENTER OF METROLOGY

GUANGDONG INSTITUTE OF METROLOGY

TEST REPORT

No. XNZ202402126

Name of Sample:	Power Quality Monitor
Model / Type:	APView 3×220/380 V 0,01-1(6) A 50 Hz
Sample Number:	02124070800057
Applicant:	Acrel Co., Ltd.
Manufacturer:	Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Test Type:	Commission
Date Issued:	2024-08-02

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Headquarter Address: No.30, Songbai East Street, Guangyuan Middle Road, GuangZhou, Guangdong,China

Dongguan Branch Address: No.152, Shipai Duan, Dongyuan Road, Shipai Town, Dongguan, Guangdong, China

Tel. : (8620) 26297181 Fax: (8620) 26297181

E-mail: zl@scm.com.cn

Website: http://www.scm.com.cn

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（1）Basic Information

Name of Sample	Power Quality Monitor	Trade Mark	--
Model / Type	APView 3×220/380 V 0,01-1(6) A 50 Hz	Class	Class 0,2S (Active)
Sample No.	02124070800057	Sample quantity	1
Applicant	Acrel Co., Ltd.		
Address	No. 253, Yulv Road, Jiading, Shanghai, China		
Manufacturer	Jiangsu Acrel Electrical Manufacturing. Co., Ltd.		
Test Site	EMC Lab of Dongguan Branch		
Test Conditions	Temperature: (23±2) ℃ Humidity: (50~60) %RH		
Date Received	Jul. 26, 2024	Commission No.	WT20241113
Test Date	Jul. 26, 2024 to Jul. 29, 2024	Test Type	Commission
Test Item	1. Limits of error due to variation of the current		
Test Standard	1. IEC 62052-11 (Edition 2.0): 2020 Electricity metering equipment – General requirements, tests and tests conditions – Part 11:Metering equipment 2. IEC 62053-22 (Edition 2.0): 2020 Electricity metering equipment – Particular requirements – Part 22: Static meters for AC active energy (classes 0,1S, 0,2Sand 0,5S)		
Conclusion	PASS (Seal of Report)		
Remarks	Other meter specification: Transformer-operated, 3 phases 4 wires, 14000 imp/kWh.		

Tested by: Checked by: Approved by:

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（2）Test Results Summary

No.	Test Item	Test Standard	Sample No.	Pass（P）	Fail（F）
1	Limits of error due to variation of the current	IEC 62052-11 (Edition 2.0): 2020 IEC 62053-22 (Edition 2.0): 2020	02124070800057	P	

（3）Sample Photo



General picture of sample appearance

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General picture of sample nameplate

（4）Main Metrology Instrument and Test Equipment

No.	Name of Instrument/Model	Serial No.	Certificate No. /Due Date	Technical Characteristic
1	Three-phase intelligent watt-hour meter verification device/CL3000EMC	05793	DBN202200825 /2024-10-12	Class 0,05

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（5）Test Result

1 Limits of error due to variation of the current

Technical requirement: See IEC 62053-22: 2020 Table 3, class 0,2S.

Test method: To determine relative error under different current by comparing with the reference standard.

Test equipment: CL3000EMC

Test result:
Test conditions: 3×220/380 V, 0,01-1(6) A, 50 Hz, for active energy, balanced loads

cos φ	Current	Error (%)		Limit of Error (%)		
		02124070800057		Class 0,1S	Class 0,2S	Class 0,5S
		Import	Export			
1	I_{min}	-0,20	-0,27	±0,2	±0,4	±1,0
	$0,05I_n$	-0,15	-0,16	±0,1	±0,2	±0,5
	$0,1I_n$	-0,15	-0,12			
	$0,5I_n$	-0,11	-0,09			
	I_n	-0,09	-0,08			
	$0,5I_{max}$	-0,10	-0,10			
	I_{max}	-0,06	-0,16			
0,5L	$0,02I_n$	+0,17	+0,09	±0,25	±0,5	±1,0
	$0,05I_n$	+0,05	-0,02			
	$0,1I_n$	0,00	-0,05	±0,15	±0,3	±0,6
	$0,5I_n$	-0,03	0,00			
	I_n	-0,05	+0,04			
	$0,5I_{max}$	-0,10	-0,12			
	I_{max}	-0,26	-0,18			
0,8C	$0,02I_n$	-0,18	-0,24	±0,25	±0,5	±1,0
	$0,05I_n$	-0,18	-0,22			
	$0,1I_n$	-0,18	-0,19	±0,15	±0,3	±0,6
	$0,5I_n$	-0,13	-0,11			
	I_n	-0,20	-0,08			
	$0,5I_{max}$	+0,05	-0,10			
	I_{max}	-0,10	+0,01			

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Test conditions: 3×220/380 V, 0,01-1(6) A, 50 Hz
For active energy, carrying a single-phase load but with balanced voltages

cos ϕ	Current	Error (%)						Limit of Error (%)		
		02124070800057						Class 0,1S	Class 0,2S	Class 0,5S
		Import			Export					
		A	B	C	A	B	C			
1	I_{min}	-0,01	-0,25	+0,39	-0,34	-0,38	+0,27	±0,2	±0,4	±1,0
	$0,05I_n$	-0,12	-0,05	-0,08	-0,16	-0,14	-0,12	±0,1	±0,2	±0,5
	$0,1I_n$	-0,14	-0,08	-0,12	-0,18	-0,12	-0,15			
	$0,5I_n$	-0,06	-0,10	-0,09	-0,09	-0,10	-0,10			
	I_n	-0,06	-0,11	-0,10	-0,08	-0,06	-0,10			
	$0,5I_{max}$	-0,08	-0,09	-0,18	-0,06	-0,08	-0,18			
	I_{max}	-0,02	-0,03	-0,05	-0,05	-0,05	-0,02			
0,5L	$0,02I_n$	+0,49	+0,13	+0,36	+0,02	-0,10	+0,08	±0,25	±0,5	±1,0
	$0,05I_n$	+0,06	+0,43	+0,05	-0,11	+0,25	-0,04			
	$0,1I_n$	+0,02	+0,06	-0,02	-0,07	-0,01	-0,07	±0,15	±0,3	±0,6
	$0,5I_n$	+0,02	+0,08	-0,09	+0,01	+0,06	-0,08			
	I_n	-0,03	-0,06	-0,11	-0,04	-0,08	-0,03			
	$0,5I_{max}$	-0,09	-0,13	-0,05	-0,12	-0,23	-0,14			
	I_{max}	-0,07	-0,25	-0,04	-0,06	-0,24	+0,03			
0,8C	$0,02I_n$	-0,01	+0,22	+0,08	-0,19	+0,09	-0,08	±0,25	±0,5	±1,0
	$0,05I_n$	-0,13	-0,20	-0,08	-0,23	-0,33	-0,13			
	$0,1I_n$	-0,17	-0,14	-0,12	-0,20	-0,18	-0,15	±0,15	±0,3	±0,6
	$0,5I_n$	-0,06	-0,13	-0,14	-0,10	-0,15	-0,10			
	I_n	-0,09	-0,08	-0,08	-0,13	-0,09	-0,14			
	$0,5I_{max}$	+0,06	+0,08	-0,17	-0,08	-0,12	-0,03			
	I_{max}	-0,03	-0,14	-0,13	-0,09	-0,11	-0,03			

Conclusion: Pass

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