Noark

Power Insight Made Simple

PMA610

Digital Multifunction Power Meter

PMA610 Power Insight Made Simple

Applications

Energy Monitoring & Management Systems
collect energy data for consumption tracking, cost allocation, trend analysis, and optimization

Cost management
billing verification

Equipment & Process Monitoring
support predictive maintenance and performance optimization

Features

Accuracy
Class 0.5S IEC62053-22 Class 0.5 IEC 61557-12

Network Management
RS485 Modbus RTU
Standard 4 digital input/4 relay output

Display
Bright, wide-angle display for effortless readability

Ease of Use
Easy installation: compact size
Easy to operate: Intuitive navigation

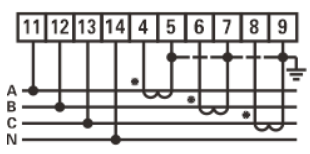
SPECIFICATIONS

Weight	
Supply voltage range	AC/DC 85V～264V
Power Consumption	≤ 15VA
Withstand voltage	≥2kV
Communication / Interface	
Physical interface	RS-485
Communication speed	Up to 19.2 kbps
Communication protocol	Modbus-RTU
Channels of digital input	
Channels	4
Relay output	
Capacity	AC250V/2A, DC30V/2A
Energy pulse output	
Pulse width	80±16ms
Measuring voltage inputs	
Rated range	600 VAC L-L
Resolution	0.1 V
Impedance	＞500kΩ
Over load	Duration: 1.2times Instantaneous: 2times/5s
Frequency	45-65 Hz
Demand	
Real-time Demand	Total active power demand

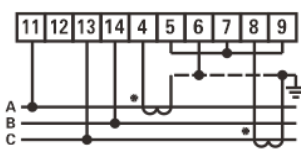
Measuring current inputs	
Rated range	5A (continuous: 1.2In)
Resolution	1 mA
Impedance	≤20mΩ/per phase
Power consumption	≤ 1VA (per phase)
Over current	Instantaneous: 10 times/5s
Accuracy	
Voltage	±0.5% (IEC 61557-12)
Current	±0.5% (IEC 61557-12)
Frequency	±0.5% (IEC 61557-12)
Power factor	±0.5% (IEC 61557-12)
Active energy	Class 0.5S (IEC 62052-21)
Reactive energy	Class 2 (IEC 62053-23)
Measurement	
Energy	Positive/Negative active, reactive, apparent energy, four quadrant reactive energy
Working Environment	
Working temperature	-25°C to 55°C
Storage temperature	-30°C to 70°C
Relative humidity	5 ~ 93% RH, non-condensing
Protection degree	Front case IP54, rear case IP20

EMC	
Electrostatic discharge immunity	IEC 61000-4-2-III
Radiated, radio-frequency, electromagnetic field immunity	IEC 61000-4-3-III
Electrical fast transient/burst immunity	IEC 61000-4-4-IV
Surge immunity	IEC 61000-4-5-IV
Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6-III
Voltage dips, short interruptions and voltage variations immunity tests	IEC 61000-4-11-III

WIRING DIAGRAM



Type of wiring 3P4W



Type of wiring 3P3W

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