1426M8ECNT

Allen-Bradley PM5000 M8 Power Quality Meter with ControlNet Comms

POWER ANALYSERS



Component type	Power quality recorder
Range	Power Monitor 5000
Model	N/A
Product status	Existing

The Allen Bradley Power Monitor 5000 is the premier power quality meter from Rockwell Automation. Building on core power and energy metering capabilities features include advanced harmonic analysis, power quality monitoring and virtual wiring correction capability. This power analyser is a comprehensive solution for enhanced power monitoring and management requirements.

ELECTRICAL

Nominal voltage (Un) L-L	26-144 V
Nominal voltage (Un) N-L	15-660 V
Supply voltage AC 50 Hz	120-240 V
Supply voltage AC 60 Hz	120-240 V
Supply voltage DC	22.8-25.2 V
Voltage type of supply voltage	AC
Number of voltage measurement inputs	4
Number of current measurement inputs	4
Accuracy class reactive energy according to IEC 62053-23	Not suitable
Accuracy class according to IEC 61000-4-30	A
Measuring range for frequency	40-75 Hz
Sampling frequency for transient detection	5000 MHz
Measurement of harmonics in frequency range 2 kHz - 9 kHz	Yes
Measurement of harmonics in frequency range 9 kHz - 150 kHz	No
Flicker according to IEC 61000-4-15	Yes
With transient detection	Yes
Self-powered	No
Data evaluation according to EN 50160	Yes
Type of display	External (not included)
Ethernet-connections	1
With audit logging (audit log)	Yes
Measurement parameter kW	Yes
Measurement parameter kW demand	Yes
Measurement parameter kWh	Yes

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ELECTRICAL	Measurement parameter kWh demand	Yes
	Measurement parameter partial kWh	Yes
	Measurement parameter kVA	Yes
	Measurement parameter kVAR	Yes
	Measurement parameter kVARh	Yes
	Measurement parameter VA	Yes
	Measurement parameter VAR	Yes
	Measurement parameter F	Yes
	Measurement parameter PF	Yes
	Measurement parameter Hz	Yes
	Measurement parameter VL-L	Yes
	Measurement parameter VL-N	Yes
	Measurement parameter THD (I)	Yes
	Measurement parameter THD (V,I)	Yes
	Measurement parameter TRMS (V,I)	Yes
	Measurement parameter An	Yes
	Measurement parameter ADMD	Yes
	Measurement parameter VADMD	Yes
	Measurement parameter VARDMD	Yes
	Measurement parameter AMAXDMD	Yes
	Measurement parameter WDMD	Yes
	Measurement parameter W	Yes
	Measurement parameter voltage sequence diagnostics	Yes
	Measurement parameter hour run	No
	Accuracy class	0.2
COMMUNICATION	Configuration method	Web-based
	Data transfer via PQDif	No
	Fault record transmission via COMTRADE	No
	Supporting protocol for IEC 61850 Ethernet	No
	Supporting protocol for OPC UA PubSub	No
	Supporting protocol for PROFIBUS	No
	Supporting protocol for Modbus	No
	Supporting protocol for PROFINET IO	No
	Supporting protocol for other bus systems	No
	Supporting protocol for DeviceNet	No
	Supporting protocol for ControlNet	Yes
	With firmware signature	No
	With logging of security events (security event log)	Yes
	With Role Based Access Control (RBAC)	Yes
	Web server with HTTPS transfer protocol	No
CONSTRUCTION	Number of analogue inputs	0
	Number of analogue outputs	0
	Number of digital inputs	0
	Number of digital outputs	0

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CONSTRUCTION	Degree of protection (IP), front side	IP10
	Terminal type	Screw
MECHANICAL	Display	None
DIMENSIONS	Height	132 mm
	Width	185 mm
	Depth	178 mm
ENVIRONMENT	Operating temperature	-20…70 °C
	Storage temperature	-40…85 °C
	Humidity type	Non-condensing

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