

# Product Datasheet

## Characteristic

# METSEPM8240

PowerLogic PM8000 - PM8240 Panel mount meter - intermediate metering



## Main

range	Powerlogic
product name	PowerLogic PM8000
device short name	PM8240
product or component type	power meter

## Complementary

power quality analysis	compliance report EN 50160 power quality measurement IEC 61000-4-30 : class S up to the 63rd harmonic harmonic distortion waveform capture voltage sag and swell detection programmability (logic and math functions) power quality monitoring IEC 62586
device application	WAGES metering power monitoring
type of measurement	current voltage frequency active and reactive power (total) apparent power (total) power factor (total) active and reactive power (per phase, rms) apparent power (per phase, rms) power factor (per phase, rms)
[Us] rated supply voltage	90...415 V AC +/- 10 % (45...65 Hz) 120...300 V DC +/- 10 %
network frequency	50 Hz 60 Hz
[In] rated current	1 A 10 A 5 A
poles description	1P + N 3P 3P + N
power consumption in VA	18...36 VA at 415 V AC
display type	colour TFT LCD
display resolution	320 x 240 pixels QVGA
sampling rate	256 samples/cycle

measurement current	50 mA...10 A
analogue input type	current (impedance 0.3 mOhm) voltage (impedance 5 MOhm)
measurement voltage	57...400 V AC 42...69 Hz between phase and neutral 100...690 V AC 42...69 Hz between phases
frequency measurement range	42...69 Hz
number of inputs	3 digital 30 V AC 3 digital 60 V DC
measurement accuracy	+/- 0.1 % current +/- 0.1 % voltage +/- 0.2 % active energy
accuracy class	class 0.2S (active energy according to IEC 62053-22) class 0.2 (active energy according to ANSI C12.20) class 0.2 (active power according to IEC 61557-12) class 0.5S (reactive energy according to IEC 62053-24) class 0.5 (power factor according to IEC 61557-12) class 0.2 (voltage according to IEC 61557-12) class 0.2 (current according to IEC 61557-12)
number of outputs	1 pulse
information displayed	voltage current frequency power energy consumption harmonic distortion
communication port protocol	Modbus RTU 2-wire, : 115 kbauds, ION 2-wire, : 115 kbauds, DNP3 IEC 61850 Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain : 10/100 Mbit/s, RSTP 801.1d 2004
communication port support	Ethernet RS485 (screw terminal block)
data recording	data logs event logs min/max of instantaneous values sequence of event recording time stamping trending/forecasting GPS synchronisation alarm logs harmonics logs sag and swell logs waveform logs
memory capacity	512 MB
web services	alarm notification by e-mail file upload/download via FTP HTTP server customizable home page
communication service	NTP time synchronization SMTP e-mail notification SNMP RSTP support
mounting mode	flush-mounted
mounting support	framework
installation category	III
isolation voltage	IEC 61010-1 : CAT III, 400...690 V ed. 3 EN 61010-1 : CAT III, 400...690 V ed. 3 UL 61010-1 : CAT III, 347...600 V ed. 3 CSA C22.2 No 61010-1 : CAT III, 347...600 V ed. 3
standards	IEC 61557-12 IEC 62053-22 IEC 62052-11 IEC 62053-24
product certifications	CE cULus N998 China RoHS
width	96 mm
depth	77.5 mm

height	96 mm
product weight	581 g

## Environment

electromagnetic compatibility	<p>electrostatic discharge, conforming to IEC 61000-4-2</p> <p>radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3</p> <p>electrical fast transient/burst immunity test, conforming to IEC 61000-4-4</p> <p>surge immunity test, conforming to IEC 61000-4-5</p> <p>conducted RF disturbances, conforming to IEC 61000-4-6</p> <p>magnetic field at power frequency, conforming to IEC 61000-4-8</p> <p>voltage dips and interruptions immunity test, conforming to IEC 61000-4-11</p> <p>immunity to impulse waves, conforming to IEC 61000-4-12</p> <p>conducted and radiated emissions, conforming to EN 55022</p> <p>conducted and radiated emissions, conforming to EN 55011</p> <p>conducted and radiated emissions, conforming to FCC Part 15</p> <p>conducted and radiated emissions, conforming to ICES-003</p> <p>conducted RF disturbances 2...150 Hz, conforming to CLC/TR 50579</p> <p>surge withstand, conforming to IEEE C37.90.1</p>
IP degree of protection	<p>IP54 (front) conforming to IEC 60529</p> <p>IP30 (body) conforming to IEC 60529</p>
relative humidity	5...95 %
ambient air temperature for operation	-25...70 °C
ambient air temperature for storage	-40...85 °C
operating altitude	3000 m

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1425 -
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available