Product data sheet
Characteristics

METSEPM8244
Power quality meter, PowerLogic PM8000, Standard, transducer and remote display, 512 MB, 256 s/c



Main

Range	PowerLogic
Product name	PowerLogic PM8000
Product or component type	Power meter
Device short name	PM8244
Market segment	Buildings large building cost management: billing: sub feeder Buildings small building network management: main incomer Buildings medium building network management: main incomer Buildings large building network management: main incomer Buildings large building network management: sub feeder Buildings multi-site network management: main incomer Buildings multi-site network management: sub feeder Data center network management: main incomer Data center network management: sub feeder Healthcare network management: main incomer Healthcare network management: sub feeder Industry network management: main incomer Industry network management: sub feeder Utility: sub feeder
Variant	Standard

Complementary

Power quality analysis	Conforming to EN 50160: 2010 compliance report Conforming to IEEE 519: 2014 compliance report Conforming to IEC 61000-4-30: class S power quality measurement Up to the 63rd harmonic Harmonic distortion Waveform capture Voltage sag and swell detection Programmablity (logic and math functions) Conforming to IEC 62586 power quality monitoring Disturbance direction detection rapid voltage change
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 45...65 Hz +/- 10 % 110...415 V DC +/- 10 %
Network frequency	50 Hz 60 Hz
[In] rated current	10 A 5 A 1 A
Poles description	3P 1P + N 3P + N
Power consumption in VA	16 VA at 230 V AC
Display type	Remote LCD display
Display resolution	320 x 240 pixels QVGA
Sampling rate	256 samples/cycle
Measurement current	50…10000 MA
Analogue input type	Voltage (impedance 5 MOhm) Current (impedance 0.3 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	Current +/- 0.1 % Voltage +/- 0.1 % Active energy +/- 0.2 %
Accuracy class	Class 0.2S active energy conforming to IEC 62053-22 Class 0.2 active energy conforming to ANSI C12.20 Class 0.2 active power conforming to IEC 61557-12 Class 0.5S reactive energy conforming to IEC 62053-24 Class 0.5 power factor conforming to IEC 61557-12 Class 0.2 voltage conforming to IEC 61557-12 Class 0.2 current conforming to IEC 61557-12
Number of outputs	1 pulse
Information displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion
Communication port protocol	Modbus RTU at 115 kbauds - 2-wire ION at 115 kbauds - 2-wire DNP3 IEC 61850 Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s RSTP 801.1d 2004
Communication port support	ETHERNET Screw terminal block: RS485
Communication network type	IPv6 (internet protocol)
Data recording	Sequence of event recording Event logs Min/Max of instantaneous values Harmonics logs Alarm logs GPS synchronisation Waveform logs Data logs Time stamping Trending/Forecasting Sag and swell logs 50 data recorders
Memory capacity	512 MB
Web services	Customizable home page File upload/download via FTP File upload/download via SFTP Web server Alarm notification by e-mail Viewing of captured waveform (FTP) Viewing of captured waveform (web) HTTPS server
Communication service	SMTP e-mail notification RSTP support NTP time synchronization DHCP PTP time synchronization
Cybersecurity	Password protection Syslog protocol support Port hardening Robust security logs Enable/Disable communication ports
Mounting mode	Flush-mounted Clip-on
Mounting support	DIN rail meter device Framework remote display
Provided equipment	Remote display
Installation category	III
Isolation voltage	III400…690 V conforming to IEC 61010-1:ed. 3 III400…690 V conforming to EN 61010-1:ed. 3 III347…600 V conforming to UL 61010-1:ed. 3 III347…600 V conforming to CSA C22.2 No 61010-1:ed. 3

Standards	IEC 62053-22 IEC 62053-24 IEC 62052-11 IEC 61557-12 IEEE 1588 IEC 62586-2 IEC 61326-1
Product certifications	CE[RETURN]CULus[RETURN]N998
Width	90.5 Mm
Depth	90.8 Mm
Height	90.5 Mm
Net weight	528 G

Environment

Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Surge immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Magnetic field at power frequency conforming to IEC 61000-4-8 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Immunity to impulse waves conforming to IEC 61000-4-12 Conducted and radiated emissions conforming to EN 55022 Conducted and radiated emissions conforming to EN 55011 Conducted and radiated emissions conforming to FCC part 15 Conducted and radiated emissions conforming to ICES-003 Conducted RF disturbances (2...150 Hz) conforming to CLC/TR 50579 Surge withstand conforming to IEEE C37.90.1
IP degree of protection	IP30 conforming to IEC 60529
Relative humidity	5…95 %
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Operating altitude	3000 m
Compatibility code	PM8244

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.800 Cm
Package 1 Width	14.000 Cm
Package 1 Length	36.800 Cm
Package 1 Weight	1.305 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	6.212 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	32
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	61.696 Kg

Offer Sustainability

Recyclability potential, in %	17
Total lifecycle Carbon footprint	347 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	144.76856377439307
Carbon footprint of the manufacturing phase [A1 to A3]	145 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.5635352070044256

Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.03660059186126195
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	199.2820090070477
Carbon footprint of the use phase [B2, B3, B4, B6]	199 kg CO2 eq.
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	2.6724437888584474
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Recyclability	Product designed for enhanced end-of-life management and recycling
Total lifecycle Carbon footprint	347
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	03520ddb-79bb-4c6d-89b9-5e4182b3a577
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
PVC free	Yes
End of life manual availability	End Of Life Information
Removable battery	No
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised