

Product data sheet

Specifications



power meter PowerLogic PM5650, 2 ethernet, up to 63th Harmonic, 1,1MB, waveform, 4DI/2DO 52 alarms

METSEPM5650

Product availability: Stock - Normally stocked in distribution facility

Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5650
Product or Component Type	Power meter

Complementary

Power quality analysis	up to the 63rd harmonic waveform capture voltage sag and swell detection
Metering type	Measured neutral current Calculated ground current
Device Application	Gateway WAGES metering Power monitoring Multi-tariff
Type of measurement	Current Voltage Frequency Power factor Energy Active and reactive power
supply voltage	100...300 V DC 90...528 V AC 45...65 Hz
Network Frequency	60 Hz 50 Hz
Line Rated Current	1 A 5 A
type of network	3P + N 3P 1P + N
Maximum power consumption in VA	16 VA 480 V
Ride-through time	35 ms 120 V AC typical 129 ms 230 V AC typical 50 ms 125 V DC typical
Display Type	Monochrome graphic LCD
Display Resolution	128 x 128 pixels
Sampling rate	128 samples/cycle
Measurement current	50...10000 mA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Analogue input type	Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm)
Measurement voltage	20...400 V AC 45...65 Hz between phase and neutral 20...828 V AC 45...65 Hz between phases
Frequency measurement range	45...65 Hz
Number of inputs	4 digital
Measurement accuracy	Apparent power +/- 0.5 % Frequency +/- 0.05 % Active energy +/- 0.2 % Reactive energy +/- 1 % Active power +/- 0.2 % Voltage +/- 0.1 % Power factor +/- 0.005 Current +/- 0.15 % Reactive power +/- 1 %
Accuracy class	Class 0.2S active energy IEC 62053-22
Number of Outputs	2 digital
Information displayed	Tariff 8)
Communication port protocol	Modbus RTU and ASCII 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires 2500 V JBUS Modbus TCP/IP 10/100 Mbit/s 2500 V Ethernet Modbus TCP/IP daisy chain BACnet IP DNP3 over ethernet
Communication port support	RS485 ETHERNET
Communication gateway	Ethernet/serial
Data recording	Event logs Maintenance logs Min/max of instantaneous values Data logs Alarm logs Time stamping
Memory capacity	1.1 MB
Web services	Alarm notification by e-mail Web server Diagnostic via predefined web pages Real time viewing of data
Ethernet service	SNTP client SNMP-Traps
Connections - terminals	Voltage circuit screw terminal block4 Control circuit screw terminal block2 Current transformer screw terminal block6 RS485 link screw terminal block4 Digital input screw terminal block8 Digital output screw terminal block4 Ethernet network RJ45 connector2
Mounting Mode	Flush-mounted
Mounting support	Framework
Standards	EN 50470-3 IEC 61557-12:2015 IEC 62053-22:2020 IEC 62053-24 IEC 60529 EN 50470-1 UL 61010-1 IEC 62053-23:2020 IEC 62052-11:2020 IEC 62052-31:2015

Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	3.8 in (96 mm)
Depth	2.8 in (72 mm)
Height	3.8 in (96 mm)
Net Weight	15.9 oz (450 g)

Environment

Electromagnetic compatibility	Limits for harmonic current emissions class A conforming to IEC 61000-3-2 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency level 4 conforming to IEC 61000-4-8 Conducted and radiated emissions class B conforming to EN 55022 Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3 Electrostatic discharge - test level: 8 kV level 4 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 level 4 conforming to IEC 61000-4-4 Surge immunity test level 4 conforming to IEC 61000-4-5 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
IP degree of protection	IP54 display: conforming to IEC 60529 IP30 rear: conforming to IEC 60529
Relative humidity	5...95 % 122 °F (50 °C) non-condensing
Pollution degree	2
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	<= 9842.52 ft (3000 m)

Ordering and shipping details

Category	US10PL109777
Discount Schedule	0PL1
GTIN	3606489869717
Returnability	Yes
Country of origin	IN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.92 in (12.500 cm)
Package 1 Width	5.00 in (12.700 cm)
Package 1 Length	4.53 in (11.500 cm)
Package weight(Lbs)	21.093 oz (598.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	17.253 lb(US) (7.826 kg)

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	451

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	C32c2d48-7f52-422d-8a44-67c4f7d4c788
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

Repack and remanufacture	
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.