

# 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

Price\*: 4,646.35 USD

## 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

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

<b>Measurement Current</b>	50...10000 mA
<b>Analogue Input Type</b>	Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm)
<b>Measurement Voltage</b>	20...400 V AC 45...65 Hz between phase and neutral 20...828 V AC 45...65 Hz between phases
<b>Frequency Measurement Range</b>	45...65 Hz
<b>Number Of Inputs</b>	4 digital
<b>Measurement Accuracy</b>	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 %
<b>Accuracy Class</b>	Class 0.2S active energy IEC 62053-22
<b>Number Of Outputs</b>	2 digital
<b>Information Displayed</b>	Tariff 8)
<b>Communication Port Protocol</b>	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
<b>Communication Port Support</b>	RS485 ETHERNET
<b>Communication Gateway</b>	Ethernet/serial
<b>Data Recording</b>	Event logs Maintenance logs Min/max of instantaneous values Data logs Alarm logs Time stamping
<b>Memory Capacity</b>	1.1 MB
<b>Web Services</b>	Alarm notification by e-mail Web server Diagnostic via predefined web pages Real time viewing of data
<b>Ethernet Service</b>	SNTP client SNMP-Traps
<b>Connections - Terminals</b>	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
<b>Mounting Mode</b>	Flush-mounted
<b>Mounting Support</b>	Framework
<b>Standards</b>	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

<b>Product Certifications</b>	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
<b>Width</b>	3.78 in (96 mm)
<b>Depth</b>	2.83 in (72 mm)
<b>Height</b>	3.78 in (96 mm)
<b>Net Weight</b>	15.87 oz (450 g)

## Environment

<b>Electromagnetic Compatibility</b>	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
<b>Ip Degree Of Protection</b>	IP54 display: conforming to IEC 60529 IP30 rear: conforming to IEC 60529
<b>Relative Humidity</b>	5...95 % 122 °F (50 °C) non-condensing
<b>Pollution Degree</b>	2
<b>Ambient Air Temperature For Operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature For Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating Altitude</b>	<= 9842.52 ft (3000 m)

## Ordering and shipping details

<b>Category</b>	US10PL109777
<b>Discount Schedule</b>	0PL1
<b>Gtin</b>	3606489869717
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	IN

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	4.53 in (11.5 cm)
<b>Package 1 Width</b>	4.92 in (12.5 cm)
<b>Package 1 Length</b>	4.92 in (12.5 cm)
<b>Package 1 Weight</b>	22.79 oz (646 g)
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	12
<b>Package 2 Height</b>	11.81 in (30 cm)
<b>Package 2 Width</b>	11.81 in (30 cm)
<b>Package 2 Length</b>	15.75 in (40 cm)
<b>Package 2 Weight</b>	17.93 lb(US) (8.133 kg)

<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	96
<b>Package 3 Height</b>	29.53 in (75 cm)
<b>Package 3 Width</b>	31.50 in (80 cm)
<b>Package 3 Length</b>	23.62 in (60 cm)
<b>Package 3 Weight</b>	161.08 lb(US) (73.064 kg)

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile [End of Life Information](#)

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](http://www.P65Warnings.ca.gov)