

# Product data sheet

Specifications



## PM5350 Power & Energy meter with THD, alarming

METSEPM5350

### Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product name              | PowerLogic PM5350 |
| Device short name         | PM5350            |
| Product or component type | Power meter       |

### Complementary

|                                 |  |
|---------------------------------|--|
| Power quality analysis          | total demand distortion<br>total harmonic distortion   |
| Device application              | Power monitoring   |
| Type of measurement             | Current<br>Voltage<br>Frequency<br>Power factor<br>Energy<br>Phase angle<br>Apparent power<br>Active power<br>Reactive power |
| Supply voltage                  | 85...265 V AC 45...65 Hz<br>100...300 V DC   |
| Network frequency               | 50 Hz<br>60 Hz   |
| [In] rated current              | 5 A<br>1 A   |
| Type of network                 | 1P + N<br>3P + N<br>3P   |
| Maximum power consumption in VA | 9.6 VA   |
| Ride-through time               | 80 ms 120 V AC typical<br>100 ms 230 V AC typical<br>100 ms 415 V AC typical   |
| Display type                    | Backlit LCD  |
| Display resolution              | 6 lines  |
| Sampling rate                   | 32 samples/cycle   |
| Measurement current             | 0...1 A<br>0...5 A   |
| Analogue input type             | Current 0.05...9 A (impedance <= 0.3 Ohm)  |
| Measurement voltage             | 20...690 V AC phase to phase<br>20...400 V AC phase to neutral   |

|                                    |   |
|------------------------------------|---|
| <b>Frequency measurement range</b> | 45...70 Hz  |
| <b>Number of inputs</b>            | 4 digital   |
| <b>Measurement accuracy</b>        | Current 0.3 %<br>Voltage 0.3 %<br>Frequency 0.05 %<br>Power factor +/- 0.005  |
| <b>Accuracy class</b>              | Class 0.5S active energy conforming to IEC 62053-22<br>Class 0.5 active energy conforming to IEC 61557-12<br>Class 3 reactive energy conforming to IEC 62053-23<br>Class 2 reactive energy conforming to IEC 61557-12<br>Class 0.5 power conforming to IEC 61557-12 |
| <b>Number of outputs</b>           | 2 relay   |
| <b>Information displayed</b>       | Tariff (4)  |
| <b>Communication port protocol</b> | JBUS<br>Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds   |
| <b>Communication port support</b>  | Terminal block: RS485   |
| <b>Data recording</b>              | Min/max of instantaneous values<br>Alarms   |
| <b>Connections - terminals</b>     | Voltage circuit: screw terminal block4<br>Control circuit: screw terminal block2<br>Current transformer: screw terminal block6<br>Input/output circuit: screw terminal block6<br>Relay output: screw terminal block4<br>Ethernet network: RJ45 connector            |
| <b>Mounting mode</b>               | Flush-mounted   |
| <b>Type of installation</b>        | Indoor installation   |
| <b>Standards</b>                   | IEC 61010-1   |
| <b>Product certifications</b>      | CE<br>CULus   |
| <b>Width</b>                       | 96 mm   |
| <b>Depth</b>                       | 44 mm   |
| <b>Height</b>                      | 96 mm   |
| <b>Net weight</b>                  | 0.25 kg   |

## Environment

|  |   |
|--|---|
| <b>Electromagnetic compatibility</b>         | Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3<br>Electrostatic discharge conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4<br>1.2/50 $\mu$ s shock waves immunity test conforming to IEC 61000-4-5<br>Conducted RF disturbances conforming to IEC 61000-4-6<br>Immunity to impulse waves conforming to IEC 61000-4-12<br>Conducted and radiated emissions class A conforming to EN 55011<br>Limits for harmonic current emissions conforming to IEC 61000-3-2 |
| <b>Overvoltage category</b>                  | III   |
| <b>IP degree of protection</b>               | IP30 back: conforming to IEC 60529<br>IP51 front face: conforming to IEC 60529  |
| <b>Relative humidity</b>                     | 0...95 % at 50 °C   |
| <b>Pollution degree</b>                      | 2   |
| <b>Ambient air temperature for operation</b> | -25...70 °C   |
| <b>Ambient air temperature for storage</b>   | -40...85 °C   |
| <b>Operating altitude</b>                    | 0...3000 m  |

## Packing Units

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 1</b> | PCE |
|-------------------------------|-----|

|                                     |          |
|-------------------------------------|----------|
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Weight</b>             | 358.0 g  |
| <b>Package 1 Height</b>             | 11.2 cm  |
| <b>Package 1 width</b>              | 12.5 cm  |
| <b>Package 1 Length</b>             | 12.7 cm  |
| <b>Unit Type of Package 2</b>       | S03      |
| <b>Number of Units in Package 2</b> | 12       |
| <b>Package 2 Weight</b>             | 4.962 kg |
| <b>Package 2 Height</b>             | 30 cm    |
| <b>Package 2 width</b>              | 30 cm    |
| <b>Package 2 Length</b>             | 40 cm    |
| <b>Unit Type of Package 3</b>       | P12      |
| <b>Number of Units in Package 3</b> | 288      |
| <b>Package 3 Weight</b>             | 216.0 kg |
| <b>Package 3 Height</b>             | 105 cm   |
| <b>Package 3 width</b>              | 80 cm    |
| <b>Package 3 Length</b>             | 120 cm   |

## Offer Sustainability

|                                   |   |
|-----------------------------------|---|
| <b>Sustainable offer status</b>   | Green Premium product   |
| <b>REACH Regulation</b>           | <a href="#">REACH Declaration</a>   |
| <b>EU RoHS Directive</b>          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a>  |
| <b>Environmental Disclosure</b>   | <a href="#">Product Environmental Profile</a>   |
| <b>WEEE</b>                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| <b>California proposition 65</b>  | WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>                  |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|