

# Product datasheet

Specifications



## PM5341 Meter, ethernet, up to 31st H, 256K 2DI/2DO 35 alarms, MID

Local distributor code: 398144500    METSEPM5341

### Main

|                           |                   |
|---------------------------|-------------------|
| Range                     | PowerLogic        |
| Product name              | PowerLogic PM5000 |
| Device short name         | PM5341            |
| Product or component type | Power meter       |

### Complementary

|                                 |                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| Power quality analysis          | up to the 31st harmonic                                                                       |
| Device application              | Power monitoring<br>Multi-tariff                                                              |
| Type of measurement             | Current<br>Voltage<br>Frequency<br>Power factor<br>Energy<br>Active and reactive power        |
| Supply voltage                  | 100...415 V AC 45...65 Hz<br>125...250 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 | 10 VA at 415 V                                                                                |
| 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              | 128 x 128 pixels                                                                              |
| Sampling rate                   | 64 samples/cycle                                                                              |
| Measurement current             | 10...9000 mA                                                                                  |
| Analogue input type             | Voltage (impedance 5 MOhm)<br>Current (impedance 0.3 mOhm)                                    |
| Measurement voltage             | 35...690 V AC 45...65 Hz between phases<br>20...400 V AC 45...65 Hz between phase and neutral |
| Frequency measurement range     | 45...65 Hz                                                                                    |

|                             |                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of inputs            | 2 digital                                                                                                                                                                                                                                                |
| Measurement accuracy        | Active energy +/- 0.5 %<br>Reactive energy +/- 2 %<br>Active power +/- 0.5 %<br>Apparent power +/- 0.5 %<br>Frequency +/- 0.05 %<br>Power factor +/- 0.005<br>Current +/- 0.5 %<br>Voltage +/- 0.5 %                                                     |
| Accuracy class              | Class 0.5S active energy conforming to IEC 62053-22                                                                                                                                                                                                      |
| Number of outputs           | 2 relay<br>2 digital                                                                                                                                                                                                                                     |
| Information displayed       | Tariff (4)                                                                                                                                                                                                                                               |
| Communication port protocol | Modbus TCP/IP at 10/100 Mbit/s, insulation 2500 V<br>BACnet IP                                                                                                                                                                                           |
| Communication port support  | Ethernet                                                                                                                                                                                                                                                 |
| Data recording              | Alarm logs<br>Time stamping<br>Min/max of instantaneous values<br>Event logs<br>Maintenance logs<br>Data logs                                                                                                                                            |
| Memory capacity             | 256 kB                                                                                                                                                                                                                                                   |
| Connections - terminals     | 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 |
| Mounting mode               | Flush-mounted                                                                                                                                                                                                                                            |
| Mounting support            | Framework                                                                                                                                                                                                                                                |
| Standards                   | IEC 60529<br>UL 61010-1<br>IEC 61557-12<br>IEC 62053-24<br>IEC 62053-22<br>EN 50470-3<br>EN 50470-1                                                                                                                                                      |
| Product certifications      | CE conforming to IEC 61010-1<br>CULus conforming to UL 61010-1<br>MID conforming to EN 50470-1<br>MID conforming to EN 50470-3                                                                                                                           |
| Width                       | 96 mm                                                                                                                                                                                                                                                    |
| Depth                       | 72 mm                                                                                                                                                                                                                                                    |
| Height                      | 96 mm                                                                                                                                                                                                                                                    |
| Net weight                  | 430 g                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility         | Limits for harmonic current emissions class A conforming to IEC 61000-3-2<br>Electrostatic discharge level 4 conforming to IEC 61000-4-2<br>Conducted RF disturbances level 3 conforming to IEC 61000-4-6<br>Magnetic field at power frequency level 4 conforming to IEC 61000-4-8<br>Conducted and radiated emissions class B conforming to EN 55022 |
| IP degree of protection               | IP52 front: conforming to IEC 60529<br>IP30 body: conforming to IEC 60529                                                                                                                                                                                                                                                                             |
| Relative humidity                     | 5...95 % at 50 °C                                                                                                                                                                                                                                                                                                                                     |
| Pollution degree                      | 2                                                                                                                                                                                                                                                                                                                                                     |
| Ambient air temperature for operation | -25...70 °C                                                                                                                                                                                                                                                                                                                                           |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                                                                                                                                                                                                                           |
| Operating altitude                    | 2000 m                                                                                                                                                                                                                                                                                                                                                |

Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 550.0 g |
| Package 1 Height             | 12 cm   |
| Package 1 width              | 12.4 cm |
| Package 1 Length             | 10.7 cm |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 12      |
| Package 2 Weight             | 6.9 kg  |
| Package 2 Height             | 30 cm   |
| Package 2 width              | 30 cm   |
| Package 2 Length             | 40 cm   |

Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|