# Product data sheet
## Characteristics

# METSEPM5660
## PM5660 Meter, 2 ethernet, up to 63th H, 1,1M, RCM, 4DI/2DO 52 alarms


## Main

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|---|---|
| Range | PowerLogic |
| Product name | PowerLogic PM5000 |
| Device short name | PM5660 |
| Product or component type | Power meter |

## Complementary

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| Power quality analysis | Up to the 63rd harmonic<br>Residual current monitoring |
| Metering type | Measured neutral current<br>Calculated ground current<br>Residual current I0 |
| Device application | Gateway<br>WAGES metering<br>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 | 125...250 V DC<br>100...480 V AC 45...65 Hz |
| Network frequency | 60 Hz<br>50 Hz |
| [In] rated current | 1 A<br>5 A |
| Type of network | 3P + N<br>3P<br>1P + N |
| Maximum power consumption in VA | 10 VA at 480 V |
| Ride-through time | 35 Ms 120 V AC typical<br>129 ms 230 V AC typical |
| Display type | Backlit LCD |
| Display resolution | 128 x 128 pixels |
| Sampling rate | 128 samples/cycle |
| Measurement current | 5…10000 mA |
| Analogue input type | Voltage (impedance 5 MOhm)<br>Current (impedance 0.3 mOhm) |
| Measurement voltage | 20…400 V AC 45...65 Hz between phase and neutral<br>20…690 V AC 45...65 Hz between phases |
| Frequency measurement range | 45…65 Hz |
| Number of inputs | 4 digital |

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| Measurement accuracy | Apparent power +/- 0.5 %<br>Frequency +/- 0.05 %<br>Active energy +/- 0.2 %<br>Reactive energy +/- 1 %<br>Active power +/- 0.2 %<br>Voltage +/- 0.1 %<br>Power factor +/- 0.005<br>Current +/- 0.15 °C |
| Accuracy class | Class 0.2S active energy conforming to IEC 62053-22 |
| Number of outputs | 2 digital |
| Information displayed | Tariff (8) |
| Communication port protocol | Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V<br>JBUS<br>Modbus TCP/IP at 10/100 Mbit/s, insulation 2500 V<br>Ethernet Modbus TCP/IP daisy chain<br>BACnet IP |
| Communication port support | RS485<br>Ethernet |
| Communication gateway | Ethernet/serial |
| Data recording | Event logs<br>Maintenance logs<br>Min/Max of instantaneous values<br>Data logs<br>Alarm logs<br>Time stamping |
| Memory capacity | 1.1 MB |
| Web services | Alarm notification by e-mail<br>Web server<br>Diagnostic via predefined web pages<br>Real time viewing of data |
| Ethernet service | SNTP client<br>SNMP-Traps |
| Connections - terminals | Voltage circuit: screw terminal block4<br>Control circuit: screw terminal block2<br>Current transformer: screw terminal block6<br>RS485 link: screw terminal block4<br>Digital input: screw terminal block8<br>Digital output: screw terminal block4<br>Ethernet network: RJ45 connector2 |
| Mounting mode | Flush-mounted |
| Mounting support | Framework |
| Standards | EN 50470-3<br>IEC 61557-12<br>IEC 62053-22<br>IEC 62053-24<br>IEC 60529<br>EN 50470-1<br>UL 61010-1 |
| Product certifications | CE conforming to IEC 61010-1<br>CULus conforming to UL 61010-1 |
| Width | 96 mm |
| Depth | 72 mm |
| Height | 96 mm |
| Net weight | 450 g |

## Environment

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| Electromagnetic compatibility | Limits for harmonic current emissions class A conforming to IEC 61000-3-2<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<br>Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3<br>Electrostatic discharge - test level: 8 kV level 4 conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4<br>Surge immunity test level 4 conforming to IEC 61000-4-5<br>Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 |
| 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 | 3000 m |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |