**Product data sheet**

**Characteristics**

METSEPM3255
PM3255 power meter - 2 digital I - 2 digital O - RS485

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**Main**

<table>
<thead>
<tr>
<th>Range</th>
<th>PowerLogic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>PowerLogic PM3000</td>
</tr>
<tr>
<td>Device short name</td>
<td>PM3255</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Power meter</td>
</tr>
</tbody>
</table>

**Complementary**

- Power quality analysis: up to the 15th harmonic
- Device application: Multi-tariff, Power monitoring, Sub billing
- Type of measurement: Active and reactive power, Apparent power, Current, Voltage, Energy, Power factor, Frequency, Total current harmonic distortion THD (I), Total voltage harmonic distortion THD (U)

- Supply voltage: 100...277 V AC 45...65 Hz, 173...480 V AC 45...65 Hz, 100...300 V DC
- Network frequency: 60 Hz, 50 Hz
- [In] rated current: 5 A, 1 A
- Type of network: 3P, 3P + N, 1P + N
- Power consumption in VA: 5 VA
- Display type: Backlight LCD
- Display resolution: 128 x 96 pixels
- Sampling rate: 32 samples/cycle
- Measurement current: 0.02...1.2 A, 0.05...6 A
- Analogue input type: Current 0...5 A, Current 0...1 A

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.

Jan 17, 2020
| **Measurement voltage** | 50…330 V AC 45…65 Hz direct  
50…330 V AC 45…65 Hz phase to neutral  
80…570 V AC 45…65 Hz direct  
80…570 V AC 45…65 Hz phase to phase  
570…999000 V AC 45…65 Hz with external VT |
| **Frequency measurement range** | 45…65 Hz |
| **Number of inputs** | 2 digital 0...4 mA 11...40 V DC |
| **Measurement accuracy** | Current 0.3 % 0.5...6 A  
Current 0.5 % 0.1...1.2 A  
Voltage 0.3 % 50…330 V  
Voltage 0.3 % 80…570 V |
| **Accuracy class** | Class 0.5S active energy conforming to IEC 62053-22  
Class 1 active energy conforming to IEC 62053-21  
Class 2 reactive energy conforming to IEC 62053-23  
Class C active energy conforming to EN 50470-3 |
| **Number of outputs** | 2 digital (static) |
| **Information displayed** | Tariff (4) |
| **Communication port protocol** | Modbus at 9.6…38.4 kbauds |
| **Communication port support** | RS485 |
| **Data recording** | Energy consumption logs  
15 alarms  
Power logs  
Time stamping  
Min/max of instantaneous values |
| **Memory capacity** | 512 kB |
| **Mounting mode** | Clip-on |
| **Mounting support** | DIN rail |
| **Standards** | IEC 61557-12  
EN 50470-3  
EN 61557-12  
EN 50470-1  
EN 61010-1  
UL 61010-1  
IEC 62052-11 |
| **Product certifications** | CE conforming to EN 61010-1  
CUlus conforming to UL 61010-1  
UL |
| **Width** | 90 mm |
| **Depth** | 70 mm |
| **Height** | 95 mm |
| **Product weight** | 0.26 kg |

**Environment**

**Electromagnetic compatibility**  
Electrostatic discharge level 4 conforming to IEC 61000-4-2  
Susceptibility to electromagnetic fields level 3 conforming to IEC 61000-4-3  
Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4  
1.2/50 µs shock waves immunity test level 4 conforming to IEC 61000-4-5  
Conducted RF disturbances level 3 conforming to IEC 61000-4-6  
Magnetic field at power frequency - test level: 0.5 mT conforming to IEC 61000-4-8  
Conducted and radiated emissions class B conforming to EN 55022  

**Overvoltage category** | III  
**IP degree of protection** | IP40 front panel: conforming to IEC 60529  
IP20 body: conforming to IEC 60529  
**Relative humidity** | 5…95 % at 50 °C  
**Pollution degree** | 2  
**Ambient air temperature for operation** | -25…55 °C  
**Ambient air temperature for storage** | -40…85 °C  
**Operating altitude** | 0…3000 m  

**Contractual warranty**

**Warranty** | 18 months