A9MEM3165
iEM3165 energy meter - 63 A - BACnet - 1 digital I - 1 digital O - multi-tariff

Main
Range
Acti 9
Range of product
Acti 9 iEM3000
Device short name
IEM3165
Product or component type
Energy meter

Complementary
Poles description
1P + N
3P + N
3P
Type of measurement
Active and reactive energy
Active and reactive power
Current
Voltage
Metering type
Active, reactive, apparent energy (signed, four quadrant)
Device application
Multi-tariff
Partial meter
Sub billing
Accuracy class
Class 1 active energy conforming to IEC 62053-21
Class 1 active energy conforming to IEC 61557-12
Class B active energy conforming to EN 50470-3
Input type
Direct input
[In] rated current
63 A
Rated voltage
100…277 V
173…480 V
Network frequency
60 Hz
50 Hz
Technology type
Electronic
Display type
LCD display
Sampling rate
32 samples/cycle
Measurement current
0…63 A
Maximum value measured
99999999.9 kWh
<table>
<thead>
<tr>
<th><strong>Tariff input</strong></th>
<th>Tariff (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication port protocol</strong></td>
<td>BACnet at 9.6, 19.2, 38.4, 57.6, 76.8 kbauds, insulation 4000 V</td>
</tr>
<tr>
<td><strong>Communication port support</strong></td>
<td>Screw terminal block: RS485</td>
</tr>
</tbody>
</table>
| **Local signalling** | Green indicator light: power ON  
Yellow flashing LED: accuracy checking  
alarm: overload |
| **Number of inputs** | 1 digital 0...5 V/11...40 V 24 V DC |
| **Number of outputs** | 1 digital (static) |
| **Output voltage** | 5...40 V DC 50 mA |
| **Mounting mode** | Clip-on |
| **Mounting support** | DIN rail |
| **Connections - terminals** | Screw terminals 16 mm² cable(s) |
| **Overvoltage category** | III |
| **Standards** | IEC 61036  
IEC 62053-21  
IEC 61010  
UL 61010-1  
IEC 61557-12  
IEC 62053-23 |
| **Product certifications** | CE conforming to IEC 61010 (safety)  
CE conforming to EN 61557-12 (power monitor)  
CE conforming to IEC 61326-1 (EMC)  
CULus conforming to UL 61010 (safety)  
CULus conforming to ANSI C12.20 (sub-meter)  
EAC (sub-meter)  
RCM conforming to NMI M 6-1 (sub-meter)  
UL  
MID conforming to EN 50470-3 (sub-meter)  
MID conforming to EN 62052 (sub-meter) |

**Environment**

| **IP degree of protection** | IP40 front panel: conforming to IEC 60529  
IP20 body: conforming to IEC 60529 |
| **Pollution degree** | 2 |
| **Relative humidity** | 5…95 % at 50 °C |
| **Ambient air temperature for operation** | -25…60 °C - MID  
-25…60 °C - NMI  
-25…60 °C - IEC |
| **Ambient air temperature for storage** | -40…85 °C |
| **Operating altitude** | < 2000 m |
| **Colour** | White |
| **9 mm pitches** | 10 |
| **Width** | 90 mm |
| **Height** | 95 mm |
| **Depth** | 69 mm |

**Offer Sustainability**

| **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 |