# A9MEM3250

## iEM3250 energy meter - CT - Modbus

### Characteristics

#### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>Acti 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Acti 9 iEM3000</td>
</tr>
<tr>
<td>Device short name</td>
<td>IEM3250</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Energy meter</td>
</tr>
</tbody>
</table>

#### Complementary

<table>
<thead>
<tr>
<th>Poles description</th>
<th>1P + N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3P</td>
</tr>
<tr>
<td></td>
<td>3P + N</td>
</tr>
<tr>
<td>Type of measurement</td>
<td>Voltage</td>
</tr>
<tr>
<td></td>
<td>Current</td>
</tr>
<tr>
<td></td>
<td>Active power</td>
</tr>
<tr>
<td></td>
<td>Active energy</td>
</tr>
<tr>
<td>Device application</td>
<td>Sub billing</td>
</tr>
<tr>
<td></td>
<td>Partial meter</td>
</tr>
<tr>
<td>Accuracy class</td>
<td>Active energy : class 0.5S according to IEC 62053-22</td>
</tr>
<tr>
<td></td>
<td>Active energy : class 0.5S according to IEC 61557-12</td>
</tr>
<tr>
<td></td>
<td>Active energy : class C according to EN 50470-3</td>
</tr>
<tr>
<td>Input type</td>
<td>External CT 1 A or 5 A</td>
</tr>
<tr>
<td>[In] rated current</td>
<td>1 A</td>
</tr>
<tr>
<td></td>
<td>5 A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>100...277 V</td>
</tr>
<tr>
<td></td>
<td>173...480 V</td>
</tr>
<tr>
<td>Network frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td></td>
<td>60 Hz</td>
</tr>
<tr>
<td>Technology type</td>
<td>Electronic</td>
</tr>
<tr>
<td>Display type</td>
<td>LCD display</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>32 samples/cycle</td>
</tr>
<tr>
<td>Measurement current</td>
<td>1...32767000 mA</td>
</tr>
<tr>
<td>Maximum value measured</td>
<td>99999999 MWh</td>
</tr>
<tr>
<td>Communication port protocol</td>
<td>Modbus RTU 9.6, 19.2 and 38.4 kbauds even/odd or none</td>
</tr>
<tr>
<td>Communication port support</td>
<td>Screw terminal block : RS485</td>
</tr>
</tbody>
</table>

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.
**Local signalling**

- **Power ON**: indicator light (green)
- **Accuracy checking**: flashing LED (yellow)
- **Communications are active on the Modbus port (Modbus)**: indicator light (yellow)

**Number of inputs**

0

**Number of outputs**

0

**Mounting mode**

Clip-on

**Mounting support**

DIN rail

**Connections - terminals**

- Current circuit: screw terminals 6 mm²
- Voltage circuit: screw terminals 2.5 mm²

**Overvoltage category**

III

**Standards**

- IEC 61036
- IEC 61557-12
- IEC 62053-22
- IEC 62053-23
- IEC 61010
- UL 61010-1

**Product certifications**

- UL
- EAC (sub-meter)
- CE - IEC 61010 (safety)
- CE - IEC 61326-1 (EMC)
- CULus - ANSI C12.20 (sub-meter)
- RCM - NMI M 6-1 (sub-meter)
- CE - EN 61557-12 (power monitor)
- CULus - UL 61010 (safety)

---

**Environment**

**IP degree of protection**

- IP20 (body) conforming to IEC 60529
- IP40 (front panel) conforming to IEC 60529

**Pollution degree**

2

**Relative humidity**

5...95 % at 50 °C

**Ambient air temperature for operation**

-25...60 °C (NMI)
-25...60 °C (IEC)
-25...55 °C (MID)

**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

**RoHS (date code: YYWW)**

Compliant - since 1214 - Schneider Electric declaration of conformity

**REACH**

Reference not containing SVHC above the threshold

**Product environmental profile**

Available

**Product end of life instructions**

Available

---

**Contractual warranty**

**Warranty period**

18 months