

# Product datasheet

Specifications



## modular single phase power meter iEM2000T - 230V - 40A without display

A9MEM2000T

### Main

|                           |               |
|---------------------------|---------------|
| Range                     | Acti9         |
| Family                    | Acti9 iEM2000 |
| Device short name         | iEM2000T      |
| Product or component type | Energy meter  |

### Complementary

|                             |   |
|-----------------------------|---|
| Poles description           | 1P + N  |
| Type of measurement         | Active power  |
| Device application          | Sub billing   |
| Accuracy class              | Class 1 active energy conforming to IEC 62053-21  |
| Input type                  | Direct input  |
| Maximum current [Imax]      | 40 A  |
| [Ib] basic current          | 5 A   |
| Rated current               | 40 A  |
| Rated voltage               | 230 V +/- 20 %  |
| Network frequency           | 60 Hz<br>50 Hz  |
| Frequency measurement range | 48...62 Hz  |
| Technology type             | Electronic  |
| Display type                | Without display   |
| Sampling rate               | 32 samples/cycle  |
| Measurement current         | 0.25...40 A   |
| Display digits              | 0   |
| Communication port protocol | -   |
| Communication port support  | -   |
| Local signalling            | Green indicator light: power ON<br>Yellow indicator light: metering and activity 3200 p/kWh |
| Digital inputs              | 0   |
| Digital outputs             | 1 pulse energy monitoring:  |
| Output voltage              | 5...35 V DC@20 mA   |

|                                 |  |
|---------------------------------|--|
| Impulse duration                | 120 ms   |
| Maximum power consumption in VA | 10 VA at 240 V AC  |
| Mounting mode                   | Clip-on  |
| Mounting support                | DIN rail   |
| Connections - terminals         | Power circuit: tunnel type terminals (bottom) 1 10 mm <sup>2</sup> cable(s)<br>Remote transfer: tunnel type terminals (top) 1 4 mm <sup>2</sup> cable(s) |
| Tightening torque               | Power circuit: 1.2 N.m<br>Remote transfer: 0.8 N.m   |
| Standards                       | IEC 61557-12<br>IEC 62053-21   |
| Product certifications          | CE   |

## Environment

|                                       |   |
|---------------------------------------|---|
| IP degree of protection               | IP40 front panel: conforming to IEC 60529<br>IP20 casing: |
| Ambient air temperature for operation | -25...65 °C<br>-20...55 °C                                |
| Ambient air temperature for storage   | -40...70 °C   |
| Operating altitude                    | < 2000 m  |
| Relative humidity                     | 0...95 % at 55 °C   |
| Colour                                | White   |
| 9 mm pitches                          | 2   |
| Width                                 | 18 mm   |
| Height                                | 96.5 mm   |
| Depth                                 | 69 mm   |
| Net weight                            | 0.073 kg  |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 3.5 cm   |
| Package 1 Width              | 8.0 cm   |
| Package 1 Length             | 10.0 cm  |
| Package 1 Weight             | 112.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 38       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 4.982 kg |

## 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> |

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|                                   |   |
|-----------------------------------|---|
| <b>Mercury free</b>               | Yes   |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a>        |
| <b>RoHS exemption information</b> | Yes   |
| <b>Environmental Disclosure</b>   | <a href="#">Product Environmental Profile</a> |
| <b>Circularity Profile</b>        | <a href="#">End of Life Information</a>       |

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### **Contractual warranty**

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|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

### **Recommended replacement(s)**