

# Product datasheet

Specifications



## modular single phase power meter iEM2000 - 230V - 40A

Local distributor code:

397406621

A9MEM2000

EAN Code: 3606480217401

### Main

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

### 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<br>Class B active energy conforming to EN 50470-3 |
| Analogue 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               | 50 Hz<br>60 Hz                                                                                     |
| Frequency measurement range     | 48...62 Hz                                                                                         |
| Technology type                 | Electronic                                                                                         |
| Display type                    | Electromechanical                                                                                  |
| Sampling rate                   | 32 samples/cycle                                                                                   |
| Measurement current             | 0.25...40 A                                                                                        |
| Display digits                  | 7                                                                                                  |
| Maximum value measured          | 999999.9 kWh                                                                                       |
| Communication port protocol     | -                                                                                                  |
| Communication port support      | -                                                                                                  |
| Local signalling                | Green indicator light: power ON<br>Yellow indicator light: metering and activity 3200 p/kWh        |
| Number of inputs                | 0                                                                                                  |
| Maximum power consumption in VA | 10 VA at 240 V AC                                                                                  |
| Mounting mode                   | Clip-on                                                                                            |
| Mounting support                | DIN rail                                                                                           |

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

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Connections - terminals | Power circuit: tunnel type terminals (bottom) 1 10 mm² cable(s) |
| Tightening torque       | Power circuit: 1.2 N.m                                          |
| Standards               | IEC 62053-21<br>IEC 61557-12<br>EN 50470-3                      |
| Product certifications  | CE<br>MID-D<br>EAC<br>EAC (metrology)<br>MID-B                  |

## Environment

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| IP degree of protection               | IP40 front panel: conforming to IEC 60529<br>IP20 casing: |
| Ambient air temperature for operation | -10...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                                                     |
| Product weight                        | 0.073 kg                                                  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3.200 cm  |
| Package 1 Width              | 7.200 cm  |
| Package 1 Length             | 10.000 cm |
| Package 1 Weight             | 120.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 38        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 4.860 kg  |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | CN |
|-------------------|----|

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 27 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 25 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.2 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | No                                                                                     |
| Packaging without single use plastic   | Yes                                                                                    |
| SCIP Number                            | 1370256b-4f45-45cb-ba74-d245fc174cf9                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 34                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |