

# Acti9 iEM2000 Series

## Technical Datasheet

The Acti9 iEM2000 series energy meters offer a cost-attractive, competitive range of single-phase DIN rail-mounted energy meters ideal for sub-billing and cost allocation applications.

### Applications

- Monitor the power consumption of each sector, unit, workshop, etc.
- Manage an electrical installation and optimise your building's power efficiency
- Various business, industrial and residential applications

PB1105289

[A9MEM2000](#)

The solution for

All markets that can benefit from a solution that includes PowerLogic iEM2000 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom).

Benefits

The Acti9 iEM2000 series meters are economical and easy to install in all switchboards up to 10 kVA.

Competitive advantages

- MID compliant (selected models) providing certified accuracy and data security
- Compact size
- A complete range of energy meters
- Compatible with Acti9 range

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 62053-21
- IEC 61557-12
- EN 50470-3

iEM2000 feature selection

	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
Self-powered	■	■	■	■	■
Display		■	■	■ (6 digit LCD)	■ (6 digit LCD)
Width (mm)	18	18	18	17.5	17.5
Current input	40 A	40 A	40 A	40 A	40 A
Multi-tariff				2 tariffs	2 tariffs
Communication				Modbus	Modbus
Active Energy accuracy	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3
Digital outputs	1 P/O		1 P/O		
MID for billing application		■	■		■
Commercial reference number	<b>A9MEM2000T</b>	<b>A9MEM2000</b>	<b>A9MEM2010</b>	<b>A9MEM2050</b>	<b>A9MEM2055</b>

See your Schneider Electric representative for complete ordering information.

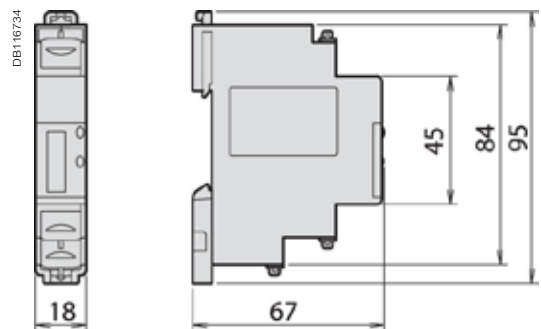
# iEM2000 series technical specifications

## Technical specifications

	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
Direct connection	Up to 40 A	Up to 40 A	Up to 40 A	Up to 45 A	Up to 45 A
Pulse output operation	100 pulses/kwh (120ms long)			1, 10, 100, 1000 or 10,000 pulses/kWh or kvarh (configurable)	
Display capacity	999999.9KWh			9999.99 kWh (switching to 99999.9 when over this value)	
Voltage range (L-N)	184 to 276 V AC			195 to 253 V AC	
Operating frequency	50/60 Hz				
Meter constant LED	3200 flashes per KWh			10000 flashes per KWh	
Wiring capacity (Top)	4 mm <sup>2</sup>				
Wiring capacity (Bottom)	10 mm <sup>2</sup>				
Consumption	<10 VA				
IP protection	IP40 front panel and IP20 casing			IP51	
Temperature	-10°C to 55°C			-25°C to 55°C	
Active energy	■	■	■	■	■
Reactive energy					
Active power					
Reactive power					
Power Factor					
Current and voltage					
Frequency					

Comm. reference number	Product
<b>A9MEM2000T</b>	iEM2000T basic energy meter, no display
<b>A9MEM2000</b>	iEM2000 basic energy meter
<b>A9MEM2010</b>	iEM2010 energy meter, kWh pulse output
<b>A9MEM2100</b>	iEM2100 basic energy meter
<b>A9MEM2050</b>	iEM2050 modular single phase power meter 230 V - 45 A with Modbus
<b>A9MEM2055</b>	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID
<b>A9MEM2105</b>	iEM2105 energy meter, kWh pulse output with partial meter
<b>A9MEM2110</b>	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified
<b>A9MEM2135</b>	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified
<b>A9MEM2150</b>	iEM2150 energy meter, Modbus communication, four quadrant energy measurement
<b>A9MEM2155</b>	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified

## iEM2000 dimensions



Maximum diameter power connection clamps 8 mm<sup>2</sup> (solid copper). See the appropriate product Installation Guide for complete instructions.

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**IEM2000 Series**  
**PLSED310046EN**

As standards, specifications and designs develop from time to time, please ask for confirmation of the information given in this document.

Design: Schneider Electric  
Photos: Schneider Electric

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