

Acti9 iEM2100 Series

The Acti9 iEM2100 series energy meters are ideal for basic Kwh metering and billing applications and support two protocols (Modbus and M-bus) that allow them to integrate seamlessly into your customers' existing networks.

Applications

- To monitor the power consumption of each sector, unit, workshop...
- To manage an electrical installation and optimise your building's power efficiency
- For business, industrial and residential applications



The solution for

All markets that can benefit from a solution that includes PowerLogic iEM2100 series meters:

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

Benefits

The Acti 9 iME kilowatt-hour meters are specially economic and easy to install in all switchboards.

Competitive advantages

- Compact size
- MID compliant (selected models) providing certified accuracy and data security
- Four quadrant measurement
- Electrical parameter measurement eg. V, I, P, PF
- Onboard Modbus or M-bus communication
- 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 logger and gateway for your building energy management. See page 114

Conformity of standards

- IEC61557-21
- IEC 62053-23
- EN50470-3

Feature selection

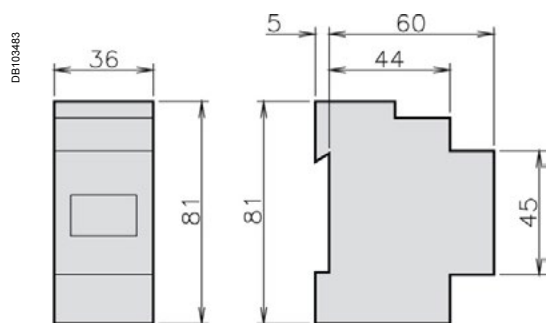
	iEM2100	iEM2105	iEM2110	iEM2135	iEM2150	iEM2155
Self-powered	■	■	■	■	■	■
Display	■	■	■	■	■	■
Width (mm)	36	36	36	36	36	36
Current input	63A	63A	63A	63A	63A	63A
Active Energy accuracy	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy accuracy	n/a	n/a	n/a	n/a	Class 2	Class 2
Four quadrant Energy measurement	n/a	n/a	■	■	■	■
Multi-tariff	n/a	n/a	2	2	n/a	2
Digital inputs	n/a	n/a	1 (tariff switching)	n/a	n/a	n/a
Digital outputs	n/a	1 P/O	2 P/O's	n/a	n/a	n/a
Communication protocol	n/a	n/a	n/a	M-bus	Modbus RS485	Modbus RS485
MID for billing application	n/a	n/a	■	■	n/a	■
Ordering reference	A9MEM2100	A9MEM2105	A9MEM2110	A9MEM2135	A9MEM2150	A9MEM2155

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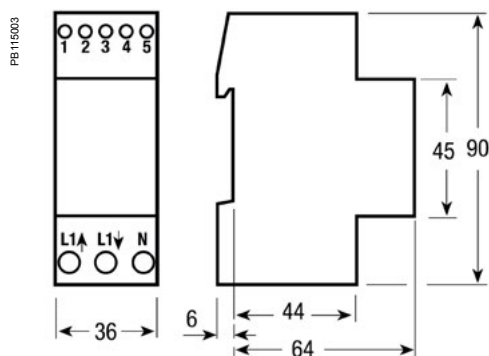
Technical specifications

	iEM2100	iEM2105	iEM2110	iEM2135	iEM2150	iEM2155
Direct connection	63A	63A	63A	63A	63A	63A
Pulse output operation	n/a	1 pulse/kwh (200ms long)	1 to 1000 pulses / kwh or kvarh (30 to 100ms long)	n/a	n/a	n/a
Display capacity	99999 KWh or 999.99 MWh		999999.99KWh			
Voltage range (L-N)	184 to 276 Vac		92 to 276 Vac			
Operating frequency	50/60Hz					
Meter constant LED	1000 flashes per KWh					
Wiring capacity (Top)	6 mm ²		4 mm ²			
Wiring capacity (Bottom)	32 mm ² (16 mm ² iEM2100/iEM2105)					
Consumption	2.5 VA		3 VA			
IP protection	IP40 front panel and IP20 casing					
Temperature	-25°C to +55°C					
Active energy	■	■	■	■	■	■
Reactive energy	n/a	n/a	■	■	■	■
Active power	n/a	n/a	■	■	■	■
Reactive power	n/a	n/a	■	■	■	■
Power Factor	n/a	n/a	■	■	■	■
Current and voltage	n/a	n/a	■	■	■	■
Frequency	n/a	n/a	■	■	■	■

iEM2100/iEM2105 dimensions



iEM2110/iEM2135/iEM2150/iEM2155 dimensions



NOTE: See the appropriate product Installation Guide for complete instructions.