



Main

Range	Acti 9
Family	Acti 9 iEM2000
Device short name	IEM2055
Product or component type	Energy meter

Complementary

Poles description	1P + N
Type of measurement	Active and reactive energy Active and reactive power Power factor Current Voltage Frequency
Device application	Sub billing Multi-tariff
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class B active energy conforming to EN 50470-3
Input type	Direct input
Rated current	45 A
Rated voltage	230 V - 15...10 %
Network frequency	50 Hz
Frequency measurement range	45...55 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	5...45 A
Display digits	6
Maximum value measured	9999.99 kWh 99999.9 kWh
Tariff input	Tariff (2)
Communication port protocol	Modbus RTU at 9.6, 19.2 and 38.4 kbauds even/odd or none
Communication port support	Screw terminals: RS485
Local signalling	Red LED: metering and activity 0.01, 0.1, 1, 10, 100, 1000, 2000 or 10000 p/kWh
Digital inputs	0

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

Digital outputs	1 pulse
Impulse duration	11.2...32 ms
Supply voltage	195...253 V AC 50 Hz
Maximum power consumption in VA	10 VA
Maximum power consumption in W	2 W
[Uimp] rated impulse withstand voltage	6 kV 1.2/50 μ s
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Power circuit: tunnel type terminals (bottom) 1 8...10 mm ² cable(s) Power circuit: tunnel type terminals (top) 1 8...10 mm ² cable(s) Pulse output: screw clamp terminals (top) 1 2.5 mm ² cable(s) Communication: screw clamp terminals (bottom) 1 2.5 mm ² cable(s)
Tightening torque	Power circuit: 0.35 N.m flat screwdriver 2.2 mm Pulse output: 0.1 N.m flat screwdriver 1.3 mm Communication: 0.1 N.m flat screwdriver 1.3 mm
Wire stripping length	Power circuit: 7.5 mm Pulse output: 7 mm Communication: 7 mm
Standards	IEC 62052-11 IEC 62053-21
Product certifications	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

Environment

IP degree of protection	IP51 front panel: conforming to IEC 60529
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-30...70 °C
Relative humidity	0...75 %
Colour	White
9 mm pitches	2
Width	17.5 mm
Height	90 mm
Depth	63 mm

Offer Sustainability

EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins