SKD-005-M

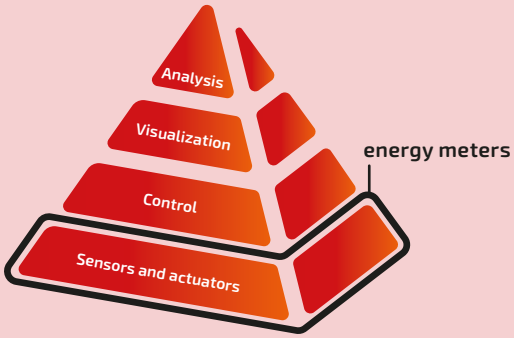
POWER OF DIVERSITY

MID-certified single-phase energy meter

The type SKD-005-BM energy meter provides a detailed overview of the energy consumption within a building. Ideal for facility managers or administrators who are responsible for a building and would like to see how the total energy consumption is divided up.

With its MID B+D certification, the SKD-005-M is suitable for settlement purposes. This energy meter is suitable for application in three-phase networks, has two pulse outputs, one communication port and sealable cover terminals and can be connected indirectly via a current transformer (1A or 5A)

"The SKD-005-M provides a detailed overview of the energy consumption of each individual consumer group in a building."



Tip from our product manager: Energy meters as part of a total solution for energy management and building automation. "By using current transformers, energy meters, an energy monitoring tool and visualization and control tools, you can measure, monitor and guarantee the quality of a system."

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Specification

Specifications	
Certification	MID B+D, CE, RoHS
Connection	Indirect in three-phase networks
Measuring voltage	3x 230V L-N or 400V L-L, max 230V +20%
Frequency	50Hz or 60Hz, 60% to 120% of nominal
Secondary current	1A or 5A, max peak 20 x Inom @ 10ms
Power supply	85-275Vac 50/60Hz or 120-380Vdc
Accuracy class	Class 0.5 (active energy)
Degree of protection	IP51 indoors
Insulation	AC: 4kV @ 1 minute, DC: 6kV @ 1.2µs
Pulse outputs	Output 1: configurable, output 2: 3200 pulses per kWh
Type of pulse outputs	Passive
Pulse duration	60ms, 100ms (standard), 200ms
Communication port (optional)	Modbus
Load	≤ 2W / 10VA
Montage	DIN-rail (35mm)
Dimensions	94.5mm x 72mm x 65mm, 4 modules wide (72mm)
Screen	LCD with backlight
Maximum reading	999999 kWh
Humidity	≤ 90% in operation, ≤ 95% in storage
Temperature	-25°C to +55°C in operation, -40°C to +70°C in storage, 23°C ±2°C specification
Standards	EN50470-1/3, IEC 62053-21, EN 55022, IEC 61000-4-3
Installation category	Class II
Environment	M1 Mechanical, E2 Electromagnetic
Pollution degree	2
Electrostatic discharges	8kV contact, 15kV air distance

Parameters
Voltage L/L
Voltage THD
Frequency
Current
Zero-current (calculated)
Maximum current
Current THD
kW
kVAr
Maximum consumed kW
Power Factor (Cosinus Phi)
Import kWh
Export kWh
Import kVARh
Export kVARh
Export kVARh

Accuracy	
Voltage (V)	0.5% of maximum range
Current (A)	0.5% of nominal
Frequency (Hz)	0.2% of average frequency
Power Factor (Cosinus Phi)	1% of unit (0.01)
Active power (W)	+/- 1% of maximum range
Reactive power (VAr)	+/- 1% of maximum range
Apparent power (VA)	+/- 1% of maximum range
Active energy (Wh)	Class 1 IEC 62053-21, Class B EN 50470-3
Reactive energy (VARh)	Class 2, ±1% of maximum range
Total harmonic distortion	(THD) 1% up to the 31st harmonic

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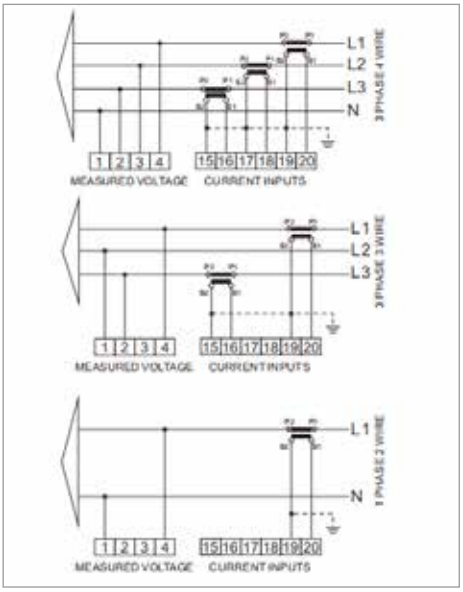
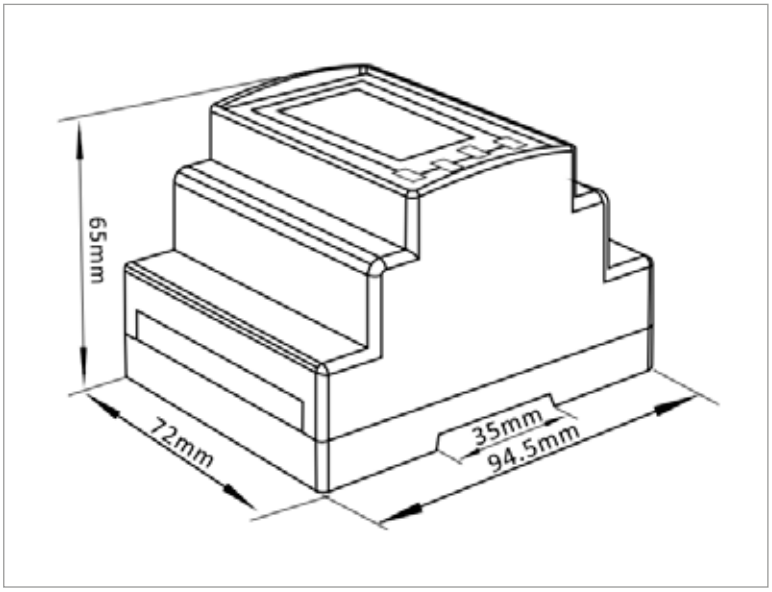
Communication port	
Bus type	RS485
Protocol	Modbus RTU
Address range	1-247
Baud rate	2400, 4800, 9600, 19200, 38400bps
Parity	Even, odd, no
Data bits	8
Stop bits	1
Maximum bus load	64 pieces
Communication distance	1000M

"In addition to measuring energy consumption, energy meters with import and export functions also ideal for measuring energy generation. Does the property you facilitate or manage have solar panels? Then an energy meter is the perfect tool to measure the yield of solar panels."

Wiring diagrams & dimensions





Ordering information

Type	secondary current	communication	certificate number	article number
SKD-005-M	1A or 5A	2x pulse, 2x Modbus RTU RS485	0120/SGS0228	185-05552-210
SKD-005	1A or 5A	2x pulse, 2x Modbus RTU RS485	Not provided with MID	185-05552-200

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