/ COM-EMETER-A-20 / COM-EMETER-B-20



SMA Commercial Energy Meter

Universal Data Recording for Energy Measurements

/ **Solution for single- and three-phase installations**

powered by ennexOS

Simple
- Quick plug and play installation
- Pre-assembled current transformers in the scope of delivery

Flexible
- Use in single- or three-phase installations
- Space-saving DIN rail mounting
- Available in versions for the measurement of up to 200 A and 600 A

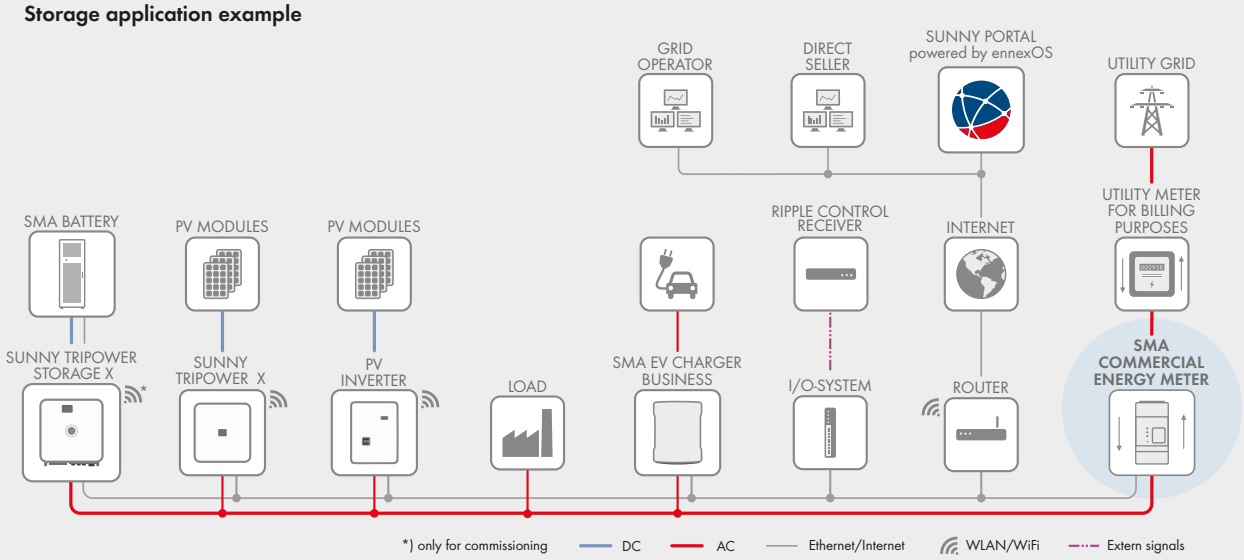
Powerful
- Fast three-phase, bidirectional reading for effective energy management
- Perfect for the use in SMA Commercial systems with and without battery storage systems

Application
- Control at the point of interconnection
- Bidirectional energy monitoring
- Integration of external loads for monitoring
- Connection to third-party inverter for energy and power monitoring

The SMA Commercial Energy Meter calculates electrical measured values and sends these through Ethernet into the local network. This allows for precise and frequent communication of data regarding grid feed-in, grid-supplied power, or PV generation from other PV inverters to SMA systems.

The SMA Commercial Energy Meter offers single- and three-phase solutions with measurements via current transformers for various customer needs in the commercial sector. The device can measure PV generation and function as a bidirectional grid-supply meter. It integrates seamlessly into the SMA Commercial Solution, providing an optimally coordinated configuration that maximizes power and stability. The measured values enhance the energy management system, contributing to increased self-consumption and reduced energy costs.

Storage application example



Technical Data	SMA Commercial Energy Meter 600 A	SMA Commercial Energy Meter 200 A
Connection Area		
Power consumption Pmax	2 W	
Voltage inputs	4 (L1, L2, L3, N)	
Voltage supply	from voltage input L1	
Cable protection	16 A type B	
Measurement range	85 V to 250 V AC	
Frequency	50 Hz / 60 Hz ± 5%	
Connection type	Connector with push-in is included	
Connection capacity	0.20 mm² to 2.50	
Number of current transformers in the scope of delivery, calibrated to type	3 x 600 A	3 x 200 A
Measuring accuracy (full-scale value)		
Phase current	1.5%	
voltage	0.5%	
Total active power	2.0%	
Total reactive power	2.0%	
Total active energy	2.0%	
Power factor	2.0%	
Frequency	0.1%	
General Data		
Dimensions (W / H / D)	35 mm / 88 mm / 65 mm	
Weight	< 200 g	
Rail mounting in the switch or meter cabinet	●	
Ambient temperature in operation	-25 °C to +55 °C	
Ambient temperature during transport/storage	-25°C to +70°C	
Dimensions of current transformer (W / H / T)	57.5 mm / 85.2 mm / 41.4 mm	
Weight of current transformer	470 g	250 g
Diameter opening current transformer enclosure opening	36 mm	24 mm
Total weight	1600 g	1000 g
Cable length to the current transformer	2 m	
Standard measuring interval	200 ms	
Max. altitude above sea level during operation	2000 m	
Protection class (according to IEC 62103)	II	
Degree of protection (as per IEC 60529)	IP20	
Overvoltage category	CAT III	
Data protocol	SMA Speedwire (facilitates commissioning), Modbus/TCP, Modbus Sunspec	
Firmware update (via SMA PC tool)	●	
Warranty	2 years	
Product standards		
Product safety	EN 61010-1; EN 61010-2-030; EN 61010-2-201	
Electromagnetic compatibility	EN 61326-1, table 2 (industry)	
Type designation	COM-EMETER-A-20	COM-EMETER-B-20

● Standard features ○ Optional features – Not available Version: 11/2024

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