EDMM-10.A / EDMM-10

Quick and easy
- Easy integration of devices
- Centralized commissioning of all integrated components

Future-proof and flexible
- Flexibly expandable anytime
- Access to the energy market of the future based on ennexOS

Functional
- Complies with international grid integration requirements
- Combine storage systems, energy generators and e-mobility

Reliable and convenient
- Remote monitoring and parameterization possible
- Detailed analytics, error messages and reporting through Sunny Portal

SMA DATA MANAGER M LITE / SMA DATA MANAGER M

A new dimension of energy monitoring and management

In combination with the Sunny Portal powered by ennexOS, the Data Manager M enables monitoring, management and grid compliant power control in decentralized PV systems. Thanks to flexible expansion options, the Data Manager M is already well-equipped for business models in the energy market of the future. Whether as a cost-effective Lite variant for smaller systems with up to five devices and 30 kVA, or as an expanded solution for up to 50 devices and an installed inverter power of 2.5 MVA in closed-loop control mode or 7.5 MVA in open-loop control mode or monitoring mode only – the Data Manager is the ideal professional system interface for electric utility companies, direct sellers, service technicians and PV system operators. Coordinated user interfaces and intuitive assistance functions simplify operation, parameterization and commissioning. Both variants are modularly expandable with many additional functions and interfaces.

Technical data	SMA DATA MANAGER M Lite	SMA DATA MANAGER M
Master data		
Total number of supported devices - of which:	5	50
Maximum number of supported PV inverters	5	50
Maximum number of supported battery inverters	1	50
Maximum number of supported energy meters (electric current and gas), generators from energy meters, I/O systems, sensors	5	50
Maximum system power PV inverters and battery inverters (nominal AC power)	30 kVA	2.5 MVA (Closed-loop control) 7.5 MVA (Open-loop control or only monitoring)
Automatic data recording for virtual generators from energy meters (PV inverter, combined heat and power plant, gas meter, diesel generator, hydroelectric power plant)	●	●
Connections		
Voltage supply	2-pin connection, MINI COMBICON	
RS485	6-pin connection, MINI COMBICON	
Network (LAN)	2 x RJ45, switched, 10 BaseT/100 BaseT	
WLAN access point for commissioning and access to the user interface	▲	
Voltage supply		
Voltage supply	External power supply unit	
Input voltage	10 V to 30 V DC (nominal 24 V DC)	
Power consumption	Typically 4 W	
Ambient conditions during operation		
Environment	Restricted class 3K7 reg. IEC60721-3-3	
Ambient temperature	–20 °C to +60 °C	
Permissible range for relative humidity (non-condensing)	5% to 95%	
Maximum operating altitude above MSL	0 m to 3,000 m (≥70 kPa)	
Degree of protection according to IEC 60529	IP20 (NEMA 1)	
General data		
Dimensions W/H/D mm (in)	161.1 / 89.7 / 67.2 (6.34 / 3.53 / 2.64)	
Mounting type	Top-hat rail mounting / wall mounting	
Features		
Warranty	2 years	
Certificates and permits (more available upon request)	www.SMA-Solar.com	
Accessories (optional)		
I/O system by Moxa Europe GmbH	ioLogik E1214 (6DI/6 relay outputs) ioLogik E1241 (4AO) ioLogik E1242 (4AI/4DI/4DIO) ioLogik E1260 (6 PT-100)	
I/O system by WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750 (8DI, 8DO, 4AI, 4AO, 2 PT-100)	
Energy meter	Elkor WattsOn Mark II MeasureLogic DTS 310/308 CCS WattNode WNC	
Communication / protocols		
FTP push (daily / hourly)	● / –	● / ●
SMA Data2+ / SMA Data	● / ●	
Client: Modbus/RTU, Modbus/TCP (also Sunspec)	●	
Server: Modbus/TCP	●	
Commissioning		
Assistant for parameterization of SMA products connected via Speedwire	●	
Remote parameterization of SMA devices with Sunny Portal	●	
Updates		
Self-update and connected Speedwire devices via USB	●	
Self-update and connected Speedwire devices via SMA Update Portal	●	
Grid management services		
Closed-loop control and open-loop control of other SMA Data Managers (master/slave)	–	●
Support of a grid-connection meter (measurement at the point of interconnection)	●	
Various options for open-loop and closed-loop control of active and reactive power	●	
Open-loop and closed-loop active power control (digital inputs)	●	
Closed-loop active power control (P(f))	in the SMA inverter	
Open-loop and closed-loop reactive power control (Q(V))	●	
Fast shutdown via the digital input	●	

Sunny Portal powered by ennexOS in conjunction with SMA Data Manager M

System and device monitoring, analysis

	SMA DATA MANAGER M Lite	SMA DATA MANAGER M
Energy balance visualization (different generators, grid-supplied power and grid feed-in)		●
Manual data recording for virtual generators from energy meters (PV inverter, combined heat and power plant, gas meter, diesel generator, hydroelectric power plant)		●
Automatic inverter comparison with alerts		●
Reporting		
Alerts in case of communication faults between portal and system		●
Preconfigured reports via e-mail		●

● Standard features   ○ Optional features   – Not available   ▲ Subject to availability

Type designation	EDMM-10.A	EDMM-10

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