

EDML-10



**Certified PV plant controller as per VDE-AR-N 4110/4120**

### Reliable

- High-performance and robust industrial quality
- No maintenance work thanks to fanless device design

### Future-Proof

- Designed for the integration of additional energy generation or compensation systems
- Access to the energy markets of the future, based on ennexOS

### Functional

- Highly dynamic certified system control to ensure compliance with international grid connection requirements
- Central information interface at plant level

### Securely connected

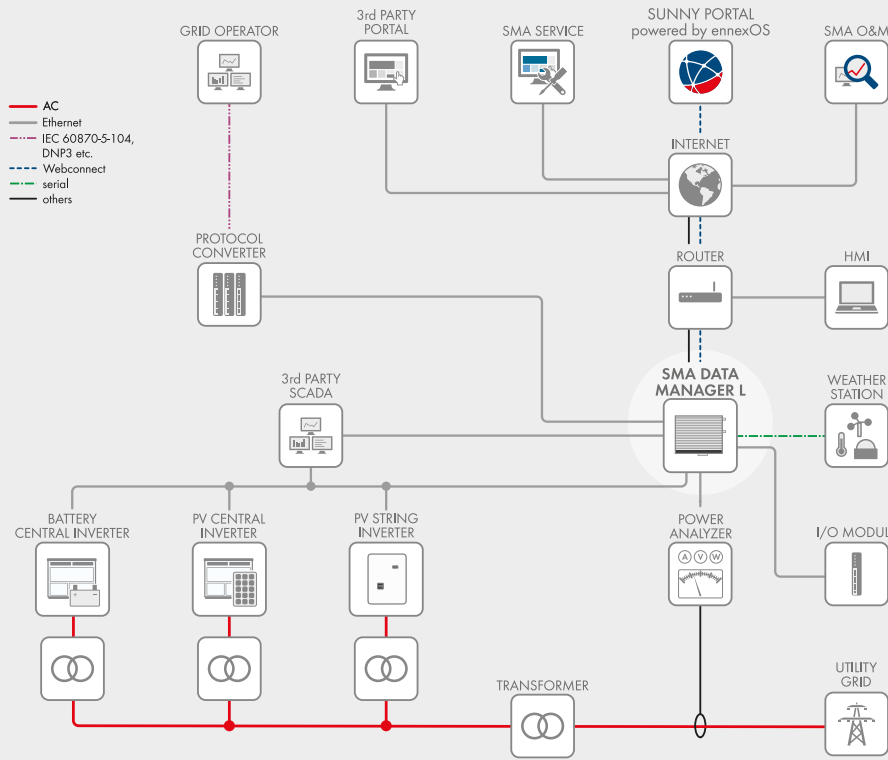
- Remote control, monitoring, diagnosis and parameterization via secure connections

## SMA DATA MANAGER L

Reliable power plant operation in intelligent utility grids

The DATA MANAGER L is the solution for reliable monitoring, control and grid-compliant output regulation for all solar power plants in the megawatt range with central or string inverters. Based on the new ennexOS software platform, its flexible, expandable design also makes it ideal for the requirements of hybrid energy generation and for intelligent connectivity. For PV system operators, grid operators, marketers and service technicians, the DATA MANAGER L is the central interface for exchanging information with the system, e.g., with SCADA systems. Highly dynamic, demand-oriented system control not only ensures that the power plant runs efficiently but also helps to stabilize the utility grid. The compact DATA MANAGER L can be easily integrated into existing switch cabinets. As a turnkey solution, the DATA MANAGER L is available as POWER PLANT MANAGER in a robust wall cabinet including additional system components.

## System diagram



Technical Data	SMA DATA MANAGER L
<b>Communication</b>	
Number of supported devices	max. 200
Supported data protocols	SMA Data2+, Modbus TCP/RTU (incl. Sunspec), FTP push
<b>Connections</b>	
Network (LAN)	2 x 10/100/1000 Mbps (RJ45)
Serial interface	1 x RS-232 <sup>1)</sup> , D-Sub 9
USB interfaces	1 x USB 3.0, 2 x USB 2.0 (type A)
Digital inputs	4 x DI, 0 to 30 VDC
<b>Voltage supply</b>	
Supply voltage	9 to 36 VDC, typ. 24 VDC (USV <sup>2)</sup> > 5s )
Current / Power consumption	2 A at 9 VDC (typ. 18 W)
<b>Ambient conditions during operation</b>	
Ambient temperature	-40 °C to +70 °C
Permissible range for relative humidity (non-condensing)	5% to 95%
Maximum operating altitude above MSL	3000 m (≥70 kPa)
Degree of protection according to IEC 60529	IP20
<b>General Data</b>	
Dimensions (W / H / D) without mounting adapter	150 mm / 120.2 mm / 48.8 mm
Weight	0.94 kg
Mounting location	Indoors
Mounting type	Top-hat rail mounting / wall mounting
Material type	Aluminum
<b>Equipment</b>	
CPU	Intel® Atom™ processor (quad core, 1.91 GHz)
Data storage	Solid-state disk (SSD), 128 GB
Warranty	63 months from delivery date (see SMA limited factory warranty)
Certificates and permits (more available upon request)	CISPR 22, EN 55022/24, EN 61000-6-2/6-4, FCC Part 15B Class A, UL/EN 60950-1, UL 508, VDE-AR-N 4110/4120
<b>Accessory</b>	
I/O systems by Moxa Europe GmbH	ioLogik E1214 (6DI/6 relay outputs), SMA order number: 124179-00.01 ioLogik E1241 (4AO), SMA order number: eIO-E1241 ioLogik E1242 (4AI/4DI/4DIO), SMA order number: eIO-E1242 ioLogik E1260 (6RTD), SMA order number: eIO-E1260
I/O systems by WAGO Kontakttechnik GmbH & Co. KG	WAGO I/O SYSTEM 750 (8DI, 8DO, 4AI, 4AO, 2RTD), SMA order number: eIO-750Bundle
Type designation	EDML-10
Compatible external power measurement	SMA Energy Meter, JANITZA UMG 604/605, ION PowerLogic 7400/7650/7750/8600/8800/9000, Elkor WattsOn Mark II, Measurlogic DTS, CCS WattNode WNC <sup>3)</sup>

1) Prepared for RS485 converter, e.g., Moxa TCC-100I-T 2) Operation only on uninterruptible power supply with potential-free contact 3) Not included in the scope of delivery of SMA Last update: 06/2022