

blue'Log XM/XC

Item no. 532.010-532.015, 532.019-532.029



The central component for controlling and monitoring PV systems.

Description

The blue'Log X-series data loggers comprehensively record key metrics from your renewable energy plant. They also provide various interfaces and functionality for power plant control, thus serving as the central component for grid-compliant feed-in. When used in conjunction with VCOM, the blue'Log transmits all recorded data to the cloud monitoring platform for in-depth analysis.

The blue'Log X series is available in two variants:

- **X-Monitoring** (blue'Log XM)
- **X-Control** (blue'Log XC)

Features

	X-Monitoring	X-Control
Monitoring	<ul style="list-style-type: none"> • Processing of up to 100 devices ¹⁾ • Processing of up to 250 trackers ²⁾ 	<ul style="list-style-type: none"> • Processing of up to 30 devices ¹⁾
Power control (active and reactive power control)	<ul style="list-style-type: none"> • No • Slave function ³⁾ 	<ul style="list-style-type: none"> • Yes

¹⁾ Status via multi/digital inputs are not included in the devices.

²⁾ If the tracker mode is activated on the blue'Log, up to 250 devices can be queried instead of 100. In this case, no other device types can be configured except for the trackers, sensors (max. 10), and Status DI internal.

³⁾ The meteocontrol master/slave functionality is used for plants with power control and more than one data logger. The blue'Log XM can be configured as a slave and thus transmit the power control setpoints to the connected inverters. Up to 50 slaves per master are possible. See **blue'Log XM slave data sheet**.

Available licenses

Installed power max. AC active power of the plant	X-Monitoring	X-Control
≤ 200 kW	532.010 blue'Log XM-200	532.020 blue'Log XC-200
≤ 1,000 kW	532.011 blue'Log XM-1000	532.021 blue'Log XC-1000
≤ 3,000 kW	532.012 blue'Log XM-3000	532.022 blue'Log XC-3000
≤ 5,000 kW	532.013 blue'Log XM-5000	532.023 blue'Log XC-5000
≤ 10,000 kW	532.014 blue'Log XM-10000	532.024 blue'Log XC-10000

≤ 20,000 kW	532.015 blue'Log XM-20000	532.025 blue'Log XC-20000
≤ 50,000 kW		532.026 blue'Log XC-50000
≤ 100,000 kW		532.027 blue'Log XC-100000
> 100,000 kW		532.028 blue'Log XC-100000+
Project item Contact us for a project-specific quotation.	532.019 blue'Log XM-Utility	532.029 blue'Log XC-Utility

Extensions

- The range of functions can be extended with licenses.
- The available additional licenses can be found in the data sheet **blue'Log XM/XC optional licenses**.

Technical data

Power supply	24 V DC
Power consumption	Typically 5 W / max. 80 W, incl. MX add-on module
ESD protection	Tested in accordance with DIN EN 61000-4-2 (4 kV contact discharge, 8 kV air discharge)
Operating temperature	-20 °C ... 60 °C
Storage and transport temperature	-20 °C ... 75 °C
Protection class	IP 20
Elevation	max. 2,000 m
Rel. air humidity	max. 80 %
Degree of soiling	max. 2
Installation	Top-hat rail (35 mm) and wall mounting
Dimensions (H x W x D)	110 x 146 x 63 mm (including side parts)
Weight	385 g
Storage	16 GB (> 100 days of data storage)
Certification	CE, UL E478072

Display / operation

Display	1 (291 x 118 pixels)
LED display	3
Operating buttons / directional pad	2 / 1
Reset button	1
DIP switches (bus termination)	3 (2 x RS485 / 1 x CAN)

Interfaces

Communication

- 2 x RS485 (interface can be terminated individually)
- 1 x Ethernet (10/100 MBit)

Digital inputs

- 4 x digital inputs (mode configurable via software for each port)
- The following options are available for each digital input:

Type	Usage	Range	Precision	Resolution
Digital	Wet contact	24 V DC / 20 mA	–	–
Meter	S0	S0 compliant / max. 16 Hz	–	–

Multi inputs

- 4 x multi inputs (mode configurable via software for each port)
- The following options are available for each multi input:

Type	Usage	Range	Precision	Resolution
Digital	Wet contact	5 V DC / 5 mA	–	–
Meter	S0	S0 compliant / max. 16 Hz	–	–
Analog	Voltage input	0 ... 10 V DC	2 mV DC	40 μ V DC
Analog	Current input	0 ... 20 mA	80 μ A	2 μ A
Analog	Resistor (PT1000)	600 ... 1,800 Ω	2 Ω	0.5 Ω

Digital outputs

- 4 x digital outputs (mode configurable via software for each port)
- The following options are available for each digital output:

Type	Usage – Open collector	Range
Digital	Active high GND (0: 1 M Ω / 1: GND) (Firmware < 16.0.5 Active low)	max. 24 V DC / max. 50 mA
Digital	Active low GND (0: GND / 1: 1 M Ω)	max. 24 V DC / max. 50 mA
Digital	Active high 24 V (0: 1 M Ω / 1: 24 V DC) (Firmware < 16.0.5 Active high)	24 V DC / max. 50 mA
Digital	Active low 24 V (0: 24 V DC / 1: 1 M Ω)	24 V DC / max. 50 mA

MX-Modules

- The system can be expanded with additional interfaces by connecting MX add-on modules.
- The following modules can be connected:

MX-Module RS485/422	max. 3
MX-Module Multi I/O	max. 5

Drivers

Supported devices: Inverters, sensors, meters, string monitoring, batteries, trackers.

The blue'Log is shipped with all device drivers available at the time of production. These can be variably assigned to the corresponding interface on the blue'Log. The number of supported devices is constantly increasing.

You can find further information in the blue'Log XM/XC [Compatibility check](#).
