

# BLUE'LOG XM / XC



## DESCRIPTION OF FUNCTIONS

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 two variants: X-Monitoring (blue'Log XM) and X-Control (blue'Log XC).

## SOFTWARE FEATURES

	X-MONITORING	X-CONTROL
Monitoring	max. 100 devices <sup>1)</sup> 250 trackers <sup>2)</sup>	max. 30 devices <sup>1)</sup>
Power control (active and reactive power control)	No Slave function <sup>3)</sup>	Yes

<sup>1)</sup> Number of devices

Exception: status via multi/digital inputs are not included in the device

<sup>2)</sup> Number of trackers

If 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.

<sup>3)</sup> Slave function

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.

## LICENSES

INSTALLED POWER <sup>4)</sup>	X-MONITORING	X-CONTROL
≤ 200 kW	532010 blue'Log XM-200	532020 blue'Log XC-200
≤ 1.000 kW	532011 blue'Log XM-1000	532021 blue'Log XC-1000
≤ 3.000 kW	532012 blue'Log XM-3000	532022 blue'Log XC-3000
≤ 5.000 kW	532013 blue'Log XM-5000	532023 blue'Log XC-5000
≤ 10.000 kW	532014 blue'Log XM-10000	532024 blue'Log XC-10000
≤ 20.000 kW	532015 blue'Log XM-20000	532025 blue'Log XC-20000
≤ 50.000 kW		532026 blue'Log XC-50000
≤ 100.000 kW		532027 blue'Log XC-100000
> 100.000 kW <sup>5)</sup>		532028 blue'Log XC-100000+
Project item <sup>5)</sup>	532019 blue'Log XM-Utility	532029 blue'Log XC-Utility

<sup>4)</sup> Maximum AC active power of the plant

<sup>5)</sup> Please contact us for a project-specific quotation.

---

## LICENSE OPTIONS

---

For more information about available optional licenses, see the data sheet "blue'Log XM / XC Optional licenses" at [www.meteocontrol.com](http://www.meteocontrol.com).

---

## TECHNICAL DATA

Power supply	24 V DC
Power consumption	Typically 5 W Max 80 W, incl. MX add-on modules
ESD protection	Tested in accordance with DIN EN 61000-4-2 (4 kV contact discharge, 8 kV air discharge)
Operating temperature	-20 °C to 60 °C
Storage and transport temperature	-20 °C to 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 (interfaces can be terminated individually)  
 1 x Ethernet (10/100 MBit)  
 1 x CAN

### Digital inputs

4 x digital inputs (mode can be configured 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 can be configured 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 µV DC
Analog	Current input	0-20 mA	80 µA	2 µA
Analog	Resistor (PT1000)	600-1,800 Ω	2 Ω	0.5 Ω

### Digital outputs

4 x digital outputs (mode can be configured 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 MΩ / 1: GND) <sup>6)</sup>	max. 24 V DC / max 50 mA
Digital	Active low GND (0: GND / 1: MΩ)	max. 24 V DC / max 50 mA
Digital	Active high 24 V (0: 1 MΩ / 1: 24 V DC) <sup>7)</sup>	24 V DC / max 50 mA
Digital	Active low 24 V (0: 24 V DC / 1: 1 MΩ)	24 V DC / max 50 mA

<sup>6)</sup> Firmware < 16.0.5 Active low

<sup>7)</sup> Firmware < 16.0.5 Active high

## MX ADD-ON-MODULES

MX-Modules RS485/422  
 MX-Modules Multi I/O

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

Maximum 3  
 Maximum 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 will find further information in the blue'Log XM / XC compatibility check.

Further information: [www.meteocontrol.com](http://www.meteocontrol.com)