BLUE'LOG XM / XC

DESCRIPTION OF FUNCTIONS

Data loggers of the blue'Log X series record all relevant system data, provide various interfaces and functionality for power plant control and thus enable grid-compliant feed-in for PV systems. For the monitoring portal VCOM (Virtual Control Room), the blue'Log X series serves as the heart of on-site monitoring.

The blue'Log X series can get ordered with the range of functions of X-Monitoring (blue'Log XM) or X-Control (blue'Log XC).

SOFTWARE FEATURES

	X-MONITORING	X-CONTROL
Monitoring	max. 100 devices[1] (250 trackers[2])	max. 30 devices[1]
Power Control (Active and Reactive Power Control)	No (Slave function[3])	Yes

[1] number of devices
Devices affects all except status via multi / digital inputs

[2] number of trackers
If the tracker mode got activated on the blue'Log, up to 250 devices can be queried instead of 100. Except for the device types tracker, sensor and status, no further devices can be configured.

[3] Slave function
For systems with Power Control and more than one data logger, the meteocontrol Master / Slave functionality is used. The blue'Log XM can get configured as a slave and thus transmits the Power Control setpoints to the connected inverters.

LICENCES

INSTALLED CAPACITY	X-MONITORING	X-CONTROL
≤ 200 kWp	532010 blue'Log XM-200	532020 blue'Log XC-200
≤ 1.000 kWp	532011 blue'Log XM-1000	532021 blue'Log XC-1000
≤ 3.000 kWp	532012 blue'Log XM-3000	532022 blue'Log XC-3000
≤ 5.000 kWp	532013 blue'Log XM-5000	532023 blue'Log XC-5000
≤ 10.000 kWp	532014 blue'Log XM-10000	532024 blue'Log XC-10000
≤ 20.000 kWp	532015 blue'Log XM-20000	532025 blue'Log XC-20000
≤ 50.000 kWp		532026 blue'Log XC-50000
≤ 100.000 kWp		532027 blue'Log XC-100000
> 100.000 kWp [4]		532028 blue'Log XC-100000+

[4] Capacity > 100 MWp
We would be pleased to provide you with a project-specific offer.

LICENCE OPTIONS

557 005 OpenVPN blue'Log XM / XC license
557 006 SFTP / FTP-Push blue'Log XM / XC license
557 007 IT infrastructure (LDAP, SCEP, SSL) license
557 008 Modbus Power Control blue'Log XC license
557 009 SCADA Interface blue'Log XM / XC license
557 010 Zero Feed-In (Automatic grid disconnection) blue'Log XC license
557 011 WEB'log Slave mode blue'Log XM license

Remote Power Control

557 122 Remote Power Control license ≤ 200 kWp blue'Log XC
557 123 Remote Power Control license ≤ 1 MWp blue'Log XC
557 124 Remote Power Control license ≤ 3 MWp blue'Log XC
557 125 Remote Power Control license ≤ 5 MWp blue'Log XC
557 126 Remote Power Control license ≤ 10 MWp blue'Log XC
557 127 Remote Power Control license ≤ 20 MWp blue'Log XC
557 128 Remote Power Control license ≤ 50 MWp blue'Log XC
557 129 Remote Power Control license ≤ 100 MWp blue'Log XC

TECHNICAL DATA

Power supply	24 V DC
Power consumption	Typically 5 W
	max. 80 W, incl. MX module
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)

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)
1 x CAN

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 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 configurable via software for each port)
The following options are available for each digital output:

Type	Usage	Range
Digital	Open Collector – Active low	max. 24 V DC / max. 50 mA
Digital	Open Collector – Active high	24 V DC / max. 50 mA

MX-MODULES

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

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

Maximum 3
Maximum 5

DRIVERS

Supported devices
(Inverters, sensors, meters,
string monitoring, batteries, trackers)

The system is supplied with all device drivers available at the time of production. Those can be assigned variably to the corresponding interface on the blue'Log. The number of supported devices is increasing all the time. You will find further information in the blue'Log compatibility list.

Further information: www.meteocontrol.com