

bluelog Neo

Item no. 532.400



The central component for controlling and monitoring PV and BESS systems.

Description

The bluelog Neo comprehensively records key metrics from your renewable energy plant. It also provides 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 bluelog Neo transmits all recorded data to the Cloud monitoring platform for in-depth analysis.

Monitoring and control licenses

The **Monitoring** functionality monitors connected devices and signals. It can function as a slave device in a master-slave setup involving multiple data loggers.

The **Control** functionality is required to carry out active and reactive power control. It can function as a master device to send signals to slave devices. Up to 50 slaves per master are possible.

By default, the bluelog Neo can monitor:

- 100 devices ^{1) 2) 3)}
- 0.2 MVA maximum AC apparent power

¹⁾ Status via multi/digital inputs do not count as devices.

²⁾ If tracker mode is activated on the bluelog, you can query up to 250 devices. In this case, you can only configure the device types tracker, sensor (max. 10), and status DI internal.

³⁾ Monitoring license: monitor 100 devices. Control licenses: monitor and control 30 devices.

You can extend the maximum capacity and add the control function with the following licenses:

Max. AC apparent power	Monitoring ¹⁾	PV control	BESS control	Hybrid control
≤ 0.2 MVA		532.410	532.420	532.430
≤ 1 MVA	532.401	532.411	532.421	532.431
≤ 3 MVA	532.402	532.412	532.422	532.432
≤ 5 MVA	532.403	532.413	532.423	532.433
≤ 10 MVA	532.404	532.414	532.424	532.434
≤ 20 MVA	532.405	532.415	532.425	532.435
≤ 50 MVA	532.406	532.416	532.426	532.436
> 50 MVA Project-specific	532.409	532.419	532.429	532.439

¹⁾ The Monitoring slave (532.408) license is available for project-specific solutions.

Extensions

- In addition to the Monitoring and Control licences, you can expand the functionality of the bluelog Neo with [communication interfaces](#) and [feature extension licenses](#).

Technical data

Model	MHC02
Power supply	24 V DC (+/- 10%)
Power consumption	Typically 5 W / max. 80 W, incl. add-on modules
Operating temperature	-20 °C ... 60 °C
Storage and transport temperature	-20 °C ... 70 °C
Protection class	IP 20
Elevation	max. 2,000 m
Relative humidity (without condensation)	max. 80 %
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	435 g
Storage	micro SD: 16 GB included
Conformity	CE

Interfaces

Communication

- 2 x RS485 (interface can be terminated individually via DIP switches)
- 2 x Ethernet (10/100/1000 MBit)

Digital inputs

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

Type	Usage	Range
Digital	Low-side switching ¹⁾	24 V DC / 12.5 mA (typical)
Meter	S0	max. 16 Hz / DIN EN 62053-31 Class A

¹⁾ Since the inputs are energized (wet contacts), they must be equipped externally with potential-free contacts (dry contacts) to ground.

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	Low-side switching ¹⁾	5 V DC / 5 mA	-	-
Meter	S0	max. 16 Hz / DIN EN 62053-31 Class B	-	-
Analog	Voltage input	0 ... 10 V DC	2 mV DC	40 µV DC
Analog	Current input	0 ... 20 mA DC	80 µA	2 µA
Analog	Resistor (PT1000)	600 ... 1,800 Ω	2 Ω	0.5 Ω

¹⁾Since the inputs are energized (wet contacts), they must be equipped externally with potential-free contacts (dry contacts) to ground.

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 output	Active high GND (0: 1 MΩ / 1: GND)	max. 24 V DC / max. 50 mA
Digital output	Active low GND (0: GND / 1: MΩ)	max. 24 V DC / max. 50 mA
Digital output	Active high 24 V (0: 1 MΩ / 1: 24 V DC)	24 V DC / max. 50 mA
Digital output	Active low 24 V (0: 24 V DC / 1: 1 MΩ)	24 V DC / max. 50 mA

Drivers

- **Supported devices:** Inverters, sensors, meters, string monitoring, batteries, trackers, genset.
- The system is shipped with all device drivers available at the time of production. These can be variably assigned to the corresponding interface.
- The number of supported devices is continuously expanding: see the [Compatibility check](#) for details.

Communication extensions

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

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

Feature extensions

The functionality of the bluelog Neo can be extended with the following optional licenses.

- Licenses are linked to a specific bluelog Neo serial number and can not be used for any other device.
- Licenses have no expiration date.
- Within the scope of a repair (RMA), you can request to transfer your existing licenses from the defective device to the replacement device.
- To order a license, contact meteocontrol order management. If you already have a bluelog Neo, provide the 14-digit hardware serial number.
 - **Phone** + 49 821 34666-43, **Email** order@meteocontrol.com

Item no.	License name
557.400	OpenVPN license bluelog Neo
557.401	SFTP / FTP-push license bluelog Neo
557.402	Modbus power control license bluelog Neo
557.403	SCADA interface license bluelog Neo
557.404	WEB'log slave mode license bluelog Neo
557.405	Modbus configurator license bluelog Neo
557.406	LDAP license bluelog Neo
557.407	External PPC license bluelog Neo

Remote power control licenses

Item no.	License (max. AC apparent power)
557.490	Remote power control (RPC) license bluelog Neo ≤ 0.2 MVA
557.491	Remote power control (RPC) license bluelog Neo ≤ 1 MVA
557.492	Remote power control (RPC) license bluelog Neo ≤ 3 MVA
557.493	Remote power control (RPC) license bluelog Neo ≤ 5 MVA
557.494	Remote power control (RPC) license bluelog Neo ≤ 10 MVA
557.495	Remote power control (RPC) license bluelog Neo ≤ 20 MVA
557.496	Remote power control (RPC) license bluelog Neo ≤ 50 MVA
557.499	Remote power control (RPC) license bluelog Neo Utility