

BlueBox R1 Controller

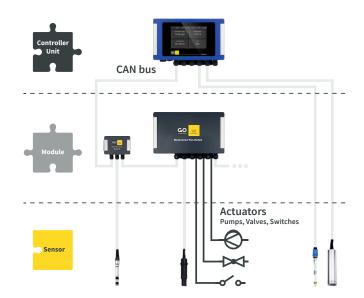
The **BlueBox R1 Controller** is a modular and expandable base for monitoring and control tasks of all dimensions. It allows the management of extensive sensor and actuator networks.

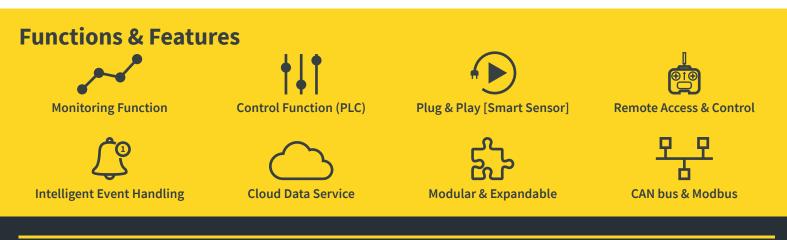
With the help of the BlueBox as a central interface, the integration and connection of further systems can easily be accomplished. A connection via internet or mobile networks facilitates the transmission of measurement data and results at any time and allows for remote access and control of the system.



The BlueBox System

The compatibility of the BlueBox System allows to easily set up complex measurement networks. Individual components can easily be linked via a fieldbus connection and allow for the expansion of the system. So, whether you have only one measurement point or a whole grid of measurement points - the BlueBox is the solution!







Technical data Power supply Power consumption (typical)

Power consumption (typical)	5 W
Dimensions (wxhxd)	330 x 220 x 93 mm
Weight	approx. 3 kg
IP protection class	IP 65
Memory	8 GB
Colour Touch Display	7 inch
Ambient temperature	-20 to +45 °C
Art. no.	486 00R1

Modular Design

The modular design of the BlueBox R1 Controller offers the option to integrate up to four freely selectable **BlueConnect Sensor or I/O cards**. The controller can thus be individually configured for your specific requirements or can subsequently be upgraded.

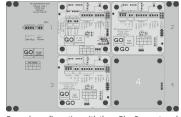
Interfaces

1x RS-232/RS-485 (with power supply 12V, 6W) as interface
or connection of sensors with RS-232/RS-485 port
1x CAN bus for connection of additional modules
1x Ethernet [TCP/IP], Modbus [TCP/IP]
1x USB
4x Slots for a freely selectable BlueConnect Sensor or

I/O Cards(e.g. analouge pH or 2x 4-20 mA Output) [optional]

GPRS / UMTS / LTE / 4G modem [optional]

WLAN [optional]



Example configuration with three BlueConnect cards

BlueConnect Sensor Cards for the connection of the following sensors

24 V DC

Variants	Art. no.	Sensor Art. no.
Galvanic Oxygen [GO]	410 CS00-4	461 400X
Analogue pH with/without Temperature (PT1000)	410 CS00-5	461 5XXX*
Analogue ISE (e.g. NH4 or NO3)	410 CS00-7	461 7XXX*
Analogue Redox (ORP)	410 CS00-9	461 9XXX*
Modbus [GO]	410 CS00-MOD	461 6200 / 461 6780 / 461 2092 / 461 4610

BlueConnect I/O Cards for the following in- & outputs

Variants	Art. no.	
2x 4-20 mA Output	410 CI00-AO2	
2x Relay Output (24 VDC; 2 A)	410 CI00-REL	
2x 4-20 mA Input	410 CI00-AI2	
2x Pulse Input (PNP/NPN selectable)	410 CI00-PI2	
2x Digital Input	410 CI00-DI2	
Modbus RS232 (12 VDC; 6 W)	410 Cl00-S12	

* or analogue sensors of other manufacturers