

# **BlueBox R1 Controller**

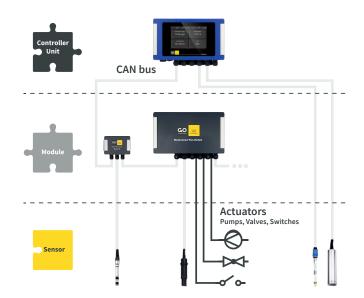
The **BlueBox R1 Controller** is a modular and expandable base for monitoring and control tasks of all dimensions. It allows the management of extensive sensor and actuator networks.

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.

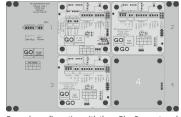
#### Interfaces

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