

# BlueConnect Module

The BlueConnect module enables the conversion of analogue sensors into the digital world. In addition to the simple connection of sensors to the BlueBox system via CAN bus, sensors can also be integrated directly into a PLC via Modbus. The necessary protocol is freely available and all necessary settings can be configured via the associated free of charge PC software.




## BlueConnect for the connection of the following sensors

Variants	Art. no.	Sensor Art. no.	Integration
Analogue pH with/without Temperature (PT1000)	486 C000-5	461 5XXX*	1 2 3
Analogue ISE (e.g. NH <sub>4</sub> or NO <sub>3</sub> )	486 C000-ISE	486 7XXX*	1 2 3
Analogue Redox (ORP)	486 C000-9	461 9XXX*	1 2 3
Galvanic Oxygen [GO]	486 C000-4	461 400X	1 2 3
Modbus [GO]	486 C000-MOD	461 6200 / 461 6780 461 2092 / 461 4610	2 3

\* or analog sensors of other manufacturers

- 1 Digitisation of analog sensors
- 2 Integration into the BlueBox-System
- 3 Extension of a measuring network

## Main Functions & Features

  
CAN bus / Modbus Interface

  
Sensor Input

  
Plug & Play [Smart Sensor]

  
Digitisation of Sensors

  
IP 66 Weatherproof

  
PLC Integration

  
Open Protocol

  
Modbus Sensor Identification

## Technical Data

Power supply	10 - 36 V DC
Power consumption module (typical)	1 W
Total power consumption depends on the connected sensor	
Dimensions (wxhxd)	120 x 60 x 85 mm
Weight	0.35 kg
IP protection class	IP 66
Ambient temperature	-10 to +45 °C

Sensor elements are not included in the scope of delivery.

## Interfaces

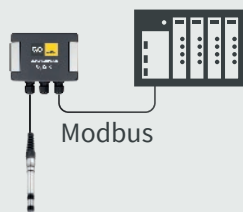
1x CAN bus (Protocol GO Systemelektronik)

1x Modbus (Protocol GO Systemelektronik, freely available)

## Integration

### Digitisation of analogue sensors

1

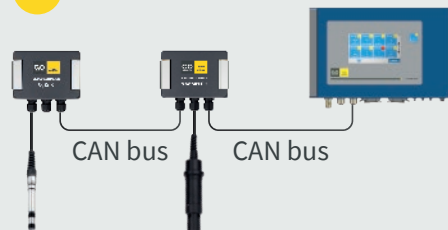


The BlueConnect module effortlessly brings an analogue sensor into the digital world. Once the sensor has been connected, the converted data can be read out via Modbus RTU (RS485). The associated protocol is freely available, enabling a direct connection to a PLC or a Modbus master.

If a sensor is used that must be calibrated at certain intervals, the BlueConnect can be connected to a laptop and calibrated with the associated free of charge PC software.

### Integration into the BlueBox-System

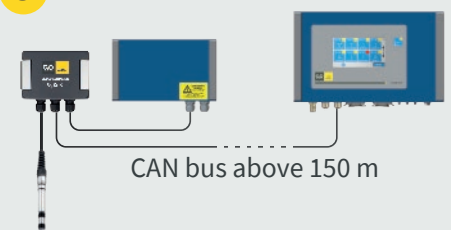
2



The BlueConnect module enables the cost-efficient integration of an analog sensor into the BlueBox system via CAN bus. If no Modbus interface is available, the module can also be used to connect digital sensors. The BlueConnect is equipped with three cable connections for simple wiring and further looping of the CAN bus connection. This allows a straightforward set-up of complex measuring systems.

### Extension of a measuring network

3



The BlueConnect module also offers the convenient option of providing a power supply for the connected sensor. For extensive measurement networks, the distance between controller and sensor can be increased by installing a BlueConnect. If, in a complex measurement network, the power supply cannot be guaranteed by a single power supply unit, the BlueConnect can supply part of the measurement system with an additional power supply unit.