

BlueBox Measuring- & Control System

The measuring and control system **BlueBox** is a modular and expandable base for projects of all dimensions. It allows the management of up to 300 sensors and actuators.

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.



Application Areas



Drinking Water

- Quality control
- Alarm systems



Wastewater

- Effluent monitoring
- Trend analysis
- Early detection of discharge (fingerprint)



Process Measurement & Control Technology

- Process monitoring in industrial facilities
- Control of process water treatment
- Process optimization



Environmental Monitoring

- River water
- Surface water

The BlueBox System

The functions and features of the BlueBox measuring and control system are integrated into our other products ISA, MPS and BlueMon. Together they form 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!

Main Functions & Features



Monitoring Function



Control Function (PLC)



Plug & Play [Smart Sensor]



Remote Access & Control



Intelligent Event Handling



Cloud Data Service



Modular & Expandable



CAN bus, Modbus & Profibus

Technical data

Power supply 24 V DC

Power consumption (typical) 10 W

Dimensions (wxhxt) 45 x 48 x 26 cm

IP protection class IP 65

Working memory

Standard 512 MB / 2GB [optional]

Ring memory for programs and measurement data

Colour touch screen 480 x 272 pixel

Ambient temperature -20 to +45 °C

Interfaces

1x RS-232, RS-485, var. protocols e.g. Modbus

1x CAN bus for connection of additional modules, sensors & actuators

1x Ethernet [TCP/IP], Modbus [TCP/IP]

1x USB

Profibus [optional]

GPRS / UMTS / LTE modem [optional]

Inputs

2x Current input 4-20 mA

2x Digital-In (static) potential free contacts

1x Pulse-In (PNP/NPN selectable)

Outputs

2x Current output 4-20 mA

2x Relay with a switching capacity of 48 V AC/DC; 0,5 A

Features & Functions

Modular & expandable

Real-time calculation of complex measuring units

Freely configurable system

Virtual sensors

Control function (PLC)

Software

BlueBox PC software for system management

SCADA software

Product configuration

The BlueBox T4 measuring and control system offers different options in terms of the size of the working memory, number of virtual sensors, as well as the possibility to integrate a power supply for additional modules.



BlueBox T4

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