

WE MAKE LIQUIDS TRANSPARENT.

BlueTrace Oil in Water Sensor

The BlueTrace Oil in Water Sensor is a compact fluorescence probe for the measurement of BTEX, PAH and refined oil in water. The robust design of the BlueTrace Sensor allows for applications in harsh conditions, such as corrosive media or at high pressure.



Parameters

- BTEX
- PAH
- Refined oil in water

Application Areas



Drinking Water

- Quality control
- Alarm systems



Wastewater

- Effluent monitoring
- Trend analysis



- Early detection of discharge
- Process Measurement & Control TechnologyProcess monitoring in industrial facilities
- Control of process water treatment
- Process optimization



Environmental Monitoring

- River water
- Surface water

Technical data

Power supply 10 - 32 V DC

Power consumption (typical) 0.5 W

Measuring principle Fluorescence measurement Evaluation (300 - 400 nm)

Measuring range (typical) 0 - 30 / 100 / 300 ppm

Measuring accuracy 3 % FS

Detection limit (typical) 0.1 ppm

Measuring interval $\geq 1 s$

Light source <300 nm

Material Stainless steel 1.4404 / Titanium [optional]

Weight 0.8 kg

Dimensions Length 150 mm; Ø 38 mm

Maximum pressure 6 bar

Interface Modbus [RTU]

Art. no. 461 6200

Main Functions & Features



Selectable Measuring Range



Insensitive to Ambiant Light



Low Power Demand



Operation temperature range

Easy Calibration



Robust & Non-corrosive



High Pressure Resistance



Modbus Interface

Compact Design

0 °C to +55 °C

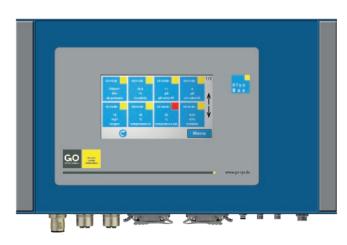


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BlueBox Measuring- & Control System

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

Environmental Monitoring



Process optimization

- 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



Intelligent Event Handling



Control Function (PLC)



Cloud Data Service



Plug & Play [Smart Sensor]



Modular & Expandable



Remote Access & Control



CAN bus, Modbus & Profibus



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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 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 Art. no. 486 0004