

# Sensor Data Sheet

## BlueTrace Oil in Water Sensor

DOC 461 6200-E-1.4-DS

Submersible Oil in Water Sensor (Modbus)

Article-No. 461 6200



**Danger:** The device emits dangerous UV radiation. Use eye protection.



### Properties

- Selectable measuring range
- Robust and Non-corrosive
- Connection via Modbus interface
- Compact design
- Easy calibration
- Low power demand
- High pressure resistance

### Applications

- Drinking water
- Wastewater
- Process measurement
- Control technology
- Environmental monitoring

Measurement	Refined Oil in Water / BTEX / PAH
Measuring principle	Fluorescence measurement Evaluation at 300 – 400 nm Light source < 300 nm
Measuring ranges	0 – 30 ppm   0 – 100 ppm   0 – 300 ppm
Measuring accuracy typical	3 % FS
Measuring interval	≥ 1 s

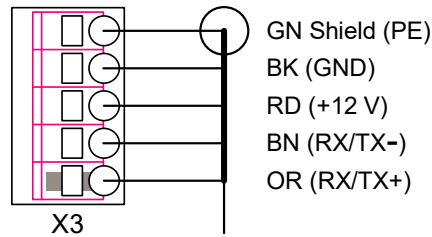
Technical Data	
Voltage supply	10 – 32 VDC
Power consumption	0.5 W typical
Body material	High-grade steel 1.4404; optional Titanium
Body length	146.1 mm
Body diameter	36 mm
Weight	0.6 kg
Cable length	up to 100 m
Ambient pressure	max. 6 bar
Ambient temperature	-5 to +55 °C
Interface	Modbus [RTU]

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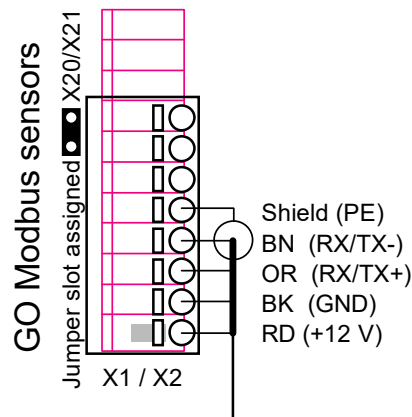
## Pin assignment

BlueTrace Oil in Water – Article-No. 461 6200

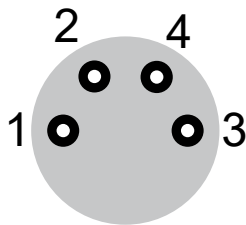
### Pin assignment at the board of the BlueConnect Module, slot X3



### Pin assignment at BlueSense Transducer, slot X1/X2



### Pin assignment at the serial interface of the BlueBox T4



#### RS-485

panel plug (M8, male)

1	GND
2	12 VDC
3	RX/TX-
4	RX/TX+



Cable socket, shielded body



Cable colours see below

- i** Here there is the BlueBox version with a 4-pin M8 panel plug and a 12 VDC power supply. For versions with 3-pin M8 panel plug without 12 VDC power supply, an adapter or similar must be used.

### Pin assignment at the mainboard of the BlueBox R1 and BlueBox Panel – Slot X08

Colour coding standard cable BlueTrace		
Pin No.	Wire colour	Function
1	orange (OR)	TX/RX+
2	brown (BN)	TX/RX-
3	red (RD)	+12 V
4	black (BK)	GND
5	green (GN)	Shield (PE)