

WE MAKE LIQUIDS TRANSPARENT.

BlueSense Transducer

The **BlueSense** transducer facilitates the processing and calculation of measurement values of physical and chemical sensors. In addition, the transducer features a full controller function that can cover all process-oriented tasks.

The BlueSense transducer is compatible with analogue and digital sensors and actuators of all manufacturers.



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

Parameters / Sensors

- Blue-green algae
- Chlorine
- Chlorine dioxide
- Chlorophyll a
- Conductivity
- Dissolved organic substances
- Dissolved oxygen
- ISE
- Level
- Oil in water

- Ozone
- pH
- Redox (ORP)
- Salinity
- Temperature
- Turbidity
- Water pressure

Main Functions & Features



Monitoring Function



Intelligent Event Handling



PID-Controller Function



Cloud Data Service



SD Card Data Logger



Modular & Expandable



2 Sensor Inputs



CAN bus, Modbus & Profibus



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Technical data

Power supply 12 V DC (9 - 18 V)

24 V DC (18 - 36 V)

230 V AC (90 - 260 V)

Power consumption (typical) 8 W

Dimensions (wxhxd) 23.5 x 18.5 x 11.9 cm

IP protection class IP 65

Graphic touch display 240 x 128 pixel

Ambient temperature -10 to +45 °C

Optional interfaces

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

1x CAN bus for connection to ISA, BlueBox, BlueMon & MPS

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

Profibus

GPRS / UMTS / LTE modem

Inputs

2x Sensor input for selectable parameters

2x Digital-In (static) potential-free contacts

2x Pulse-In (PNP/NPN selectable)

Outputs

2x Current output 4-20 mA

2x Relay with a switching capacity of 230 V AC/DC; 2 A

2x Relay with a switching capacity of 24 V AC /DC; 0,5 A

Features & functions

PID controller

Signal compensation

Data storage on SD card

Multipoint calibration

Product configuration

The BlueSense transducer can optimally be adapted to the customer specific application through the modular configuration of the sensor inputs.



BlueSense Art. no. 485 0001



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BlueTrace - Turbidity Sensor

The BlueTrace - Turbidity Sensor is a compact probe for the measurement of Turbidity, Total Suspended Solids (TSS) and Temperature in water. The sensor works according to the scattered light measuring principle and features an integrated temperature compensation.



Application Areas



Drinking Water

- Quality control
- Alarm systems



Wastewater

- Effluent monitoring
- Trend analysis
- Early detection of discharge



Process Measurement & Control Technology

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



Environmental Monitoring

- River water
- Surface water

Parameters

- Turbidity (FNU)
- Total Suspended Solids (TSS)
- Temperature

Functions & Features



Adaptable Measuring Range





Integrated TSS Estimation



90° Scattered Light



Temperature Compensation



Easy Calibration



Robust & Non-corrosive



Immersion & In-line Integration



Modbus Interface



Technica	al data	
Power supply		10 - 32 V DC
Power consum	ption (typical)	0.5 W
Light source		860 nm
Material	Stainless stee	l 1.4404 / Titanium [optional]
Operation tem	perature range	-5 °C to +55 °C
Weight		0.6 kg
Dimensions		Length 146.1 mm; Ø 36 mm
Maximum pres	ssure	6 bar
Interface		Modbus [RTU]
Art. no.		461 6780

Parameter details

Measuring principle	90° scattered light
	according to DIN EN 27027 / ISO 7027

accord	ing to bin the 21021 / 130 1021
Measuring range (Turbidity)	0 - 50 / 100 / 1000 / 4000 FNU
Measuring range (TSS)*	0 - 5 g/l
Measuring range (Temperatu	re) 0 - 60 °C
Measuring accuracy (typical)	* 3 % FS
Detection limit (typical)*	0.1 FNU
Measuring interval	≥ 1s

^{*}TSS requires calibration to on-site specific composition. Accuracy and calibration depend on the composition of the substance

Accessories



Immersion sensor holder with compressed air cleaning Art. no. 462 1110



Automatic brush cleaning system Art. no. 462 W00



Retractable armature Art. no. 462 6700



BlueConnect Module Art. no. 486 C000





Modbus Tool www.go-sys.de/en/downloads