



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



PID-Controller Function



SD Card Data Logger



2 Sensor Inputs



Intelligent Event Handling



Cloud Data Service



Modular & Expandable



CAN bus, Modbus & Profibus

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

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