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**
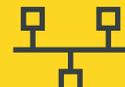
Technical data

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.

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