Conductivity sensor

905430100 · 905430130



Digital conductive conductivity sensor, especially for pure media, for operation on TriBox controllers and HS100 DIN G2 rail module. The digital technology ensures secure and interference-free signal transmission from the sensor to the controller.

## **Benefits**

- Reliable conductivity measurement with two conductive graphite electrodes and temperature compensation
- PVC sensor housing and graphite electrodes
- · No mechanically moving parts
- · Immediate installation and easy maintenance
- Modbus RTU digital communication protocol

# **Applications**

- Measurement of conductivity in the outflow of wastewater treatment plants
- Measurement of conductivity in industrial and water circuits

# **Technical Specifications**

#### **OPERATION AND SYSTEM CONFIGURATION**

Measurement principle	Conductive with 2 graphite electrodes
Measuring method	Conductometry
AUXILIARY POWER	
<b>Electrical connection</b>	8-pin M12 plug
Power supply	12-24 V
Power consumption	2 W
INPUT PARAMETERS	
Measuring ranges	0.00 to 20000 μS
Cable specification	black PUR (halogen free), shielded, M12 plug
OUTPUT SIZES	
Temperature compensation	RS-485, Modbus RTU
Accuracy	± 1 μS
Data interface	RS-485, Modbus RTU
PERFORMANCE CHARACT	TERISTICS
Response time	90% of the value in less than 60 seconds
AMBIENT CONDITIONS	

IP68

#### **PROCESS CONDITIONS**

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Process pressure	10 bar
STRUCTURAL DESIGN	
Dimensions	220 mm x 33 mm
Materials	PVC body, graphite electrodes
Thread	1" GAS BSP

# **CERTIFICATES AND APPROVALS**

**Process temperature** -10...+45 °C

CE Manufacturer's	2014/30/EC EMC Directive
Declaration	(EN 61326-1:2013)
Work certificates	Yes

### **SCOPE OF DELIVERY**

value only lead Manual	Yes
CE Manufacturer's Declaration	Yes
Test certificate	Yes

#### **ACCESSORIES**

Fittings	Flow unit
Cables	Extension cables: 0.3 m, 2 m, 10 m, 25 m
Measuring transducer	TriBox3, TriBox Mini, HS100, TriBox flex
Validation/calibration	Conductivity standard 1413 µS/cm, Basic Line

**Protection type**