

Conductivity Sensor

90S430100 · 90S430130



Digital sensor to measure conductive conductivity especially in 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

Accessories

- Cable: Extension cables of 0.3 m, 2 m, 10 m, 25 m
- Controller: TriBox3, TriBox Mini, HS100
- Fittings: FlowCell

Technical Specifications

OPERATION AND SYSTEM CONFIGURATION

Measurement principle	Conductive with 2 graphite electrodes
Measuring method	Conductometry
AUXILIARY POWER	
Electrical connection	8-pin M12 plug
Power supply	12...24 V
Power consumption	2 W
INPUT PARAMETERS	
Measuring ranges	0.00 to 20000 μ S
Cable specification	black PUR (halogen free), shielded, M12 plug
OUTPUT SIZES	
Temperature compensation	RS-485, Modbus RTU
Accuracy	$\pm 1 \mu$ S
Data interface	RS-485, Modbus RTU

PERFORMANCE CHARACTERISTICS

Response time	90 % of the value in less than 60 sec.
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AMBIENT CONDITIONS

Protection type	IP68
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PROCESS CONDITIONS

Process temperature	-10...+45 °C
Process pressure	10 bar

STRUCTURAL DESIGN

Dimensions (\varnothing x L)	33 mm x 220 mm
Materials	PVC body, graphite electrodes
Thread	1" GAS BSP