

pH Sensor Digital

90S130100 · 90S130130



Robust digital pH sensor for operation on TriBox controllers and HS100 DIN G2 rail module. Digital communication ensures safe and trouble-free signal transmission from the sensor to the controller. The high-quality gel pH electrode has a hole diaphragm and is insensitive to dirt, making the sensor ideal for wastewater applications.

Benefits

- High-quality combination electrode with hole diaphragm and polymerised solid electrolyte
- Low maintenance
- Plug and play with TriBox controller

Applications

- Water and wastewater treatment
- Coagulation and flocculation
- Process monitoring and control
- Acid/base neutralization systems

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	Digital
Measuring method	Potentiometry

AUXILIARY POWER

Electrical connection	8-pin M12 plug
Power supply	12...24 V
Power consumption	2 W

INPUT PARAMETERS

Measured variables	pH and temperature (Pt100)
Measuring ranges	pH 0...14
Cable specification	black PUR (halogen free), shielded, M12 plug

OUTPUT SIZES

Temperature compensation	Pt100
Accuracy	0.05 pH
Data interface	RS-485, Modbus RTU

PERFORMANCE CHARACTERISTICS

Response time	95 % of the value in 10 sec.
Repeatability	98 %

AMBIENT CONDITIONS

Protection type	IP68
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PROCESS CONDITIONS

Process temperature	0...+50 °C
Process pressure	6.9 bar at 50 °C
Conductivity	Min. operating conductivity 50 µS

STRUCTURAL DESIGN

Dimensions (Ø x L)	29 mm x 299 mm
Materials	Ryton® and PVC body, Viton® O-rings, other materials: Teflon®, carbon, epoxy
Thread	3/4" NPT