

pH Sensor Digital TpH

80S100000 · 80S100010



Robust digital pH sensor for operation on TriBox controllers and HS100 DIN 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. TpH is available with a 10 m or a 2 m fixed cable.

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

Measurement technology	pH-electrode	
Measurement principle	Potentiometry	
Parameter	pH-value, temperature	
Measuring range	0...14 pH	
Measurement accuracy	± 0.05 pH	
Temperature compensation	Pt1000	
Response time	90 % of value in 5 sec	
T100 response time	10 s	
Measurement interval	5 s	
Housing material	PPS / PET / NBR	
Dimensions (L x Ø)	~ 180 x 27 mm	~ 7.1" x 1.1"
Weight	~ 110 g	~ 0.2 lbs
Interface	RS-485, Modbus RTU	
Power consumption	0.2 W	
Power supply	12...24 VDC (± 10 %)	

Connector	8-pin M12-plug	
Maintenance effort	≤ 0.5 h/month (typical)	
Calibration/maintenance interval	4 weeks	
System compatibility	Modbus RTU	
Warranty	1 Year (EU: 2 years) on electronics; All wearing parts are not included in the warranty	
Max. pressure	3 bar	~ 43.5 psig
Protection type	IP68	NEMA 6P
Sample temperature	0...+100 °C	~ +32 °F... +212 °F
Ambient temperature	0...+70 °C	~ +32 °F... +158 °F
Inflow velocity	0,1 m/s	~ 0.33 fps