

# T-pH Potentiometer

*pH probe with operating indicator*



## Applications

- Control of water / wastewater treatment
- Regulation of coagulation and flocculation
- Measurement of acid / base neutralization processes
- Monitoring of discharged water

## Advantages

- High-quality combination electrode with annular measuring diaphragm and polymerized solid electrolyte
- LED operating status indicator
- Submersible probe for in situ measurements
- FlowCell for Bypass installation
- "Plug and play" equipment with TriBox transmitter

## Control the pH in contaminated water

The T-pH probe works on the electrochemical measuring principle with one measuring electrode and one reference. The high-quality pH electrode features a porous, dirt-insensitive high-density polyethylene diaphragm, making it the ideal sensor for wastewater applications.

The operating status is indicated by an LED in the upper part of the sensor, making it easy to visually identify the correct operation of the system when it is installed on a measurement board.

The T-pH probe works with the TriBox 3 and TriBox Mini controllers and keeps the calibration data in memory for a «plug and play» installation. Available with a fixed cable of 2 or 10 meters and M12 connector. Cable extensions of 0.3 m, 2 m, 10 m and 25 m, are available.



*The digital T-pH probe works with TriBox Mini and TriBox 3 transmitters.*

*Once the probe connected, the transmitter powers the sensor, receives and uses data. The measurements are displayed on the screen, they are recorded and can be converted to the 4-20 mA analog signal.*

*Interface on web browser accessible by Wifi or Ethernet.*

*-TriBox Mini-*

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## Technical specifications

Measurement technology	PH electrode
Measuring principle	Potentiometry
Parameter	pH and temperature
Measuring range	0 ... 14 pH
Measurement accuracy	+/- 0,05 pH
Temperature compensation	Automatic Pt1000
Response time	95% of a value <5 seconds
Measuring interval	> 5 seconds
Probe body materials	PPS PET NBR (polyphenylene sulfide / polyethylene terephthalate / butadiene nitrile acrylic)
Dimensions	Diameter 27 mm, length 180 mm
Weight	110 g
Connector	8-pin M12 with fixed cable
Interface	RS-485 / Modbus RTU
Consumption	0,2 W
Power supply	12 ... 24 VCC
Maintenance	<0.5 hour / month
Calibration interval	4 weeks
Compatibility	Modbus RTU - Transmitters TriBox 3, TriBox mini
Warranty	24 months in the European Union
Maximum working pressure	3 bar.
Protection type	IP68
Temperature of the medium / sample	2 ... + 40 °C
Ambient temperature	-5 ... + 55 °C
Inflow velocity	0,3 m/s



Measuring cell for By-Pass installation