



Hach pH^{HD} Online Process pH Sensor - General Purpose Sanitary Mount pH Sensor

Product #: PD3P1
AUD Price (Incl. GST): Contact Hach
Not in stock - ships within 4-6 weeks

The smart choice for accurate and reliable online process pH measurement

General Purpose Online Process pH Sensor - pH^{HD} Technology, Glass pH Electrode, PEEK Housing, Sanitary Mount, 4.5m Cable

Exceptional Process pH Sensor Performance with the Differential Electrode pH^{HD} Measurement Technique

This field-proven technique uses three electrodes instead of the two normally used in conventional pH sensors. Process and reference electrodes measure the pH differentially with respect to a third ground electrode. The end result is unsurpassed measurement accuracy, reduced reference junction potential, and elimination of sensor ground loops. These process pH sensors provide greater reliability, resulting in less downtime and maintenance.

Lower Maintenance Needs with the Double Junction Salt Bridge

The double junction salt bridge creates a barrier to contamination which minimizes the dilution of the internal standard cell solution. The result is lower maintenance needs and a longer time period between calibrations.

Extended Working Life with the Replaceable Salt Bridge/Protector

The unique, replaceable salt bridge holds an extraordinary volume of buffer to extend the working life of the sensor by protecting the reference electrode from harsh process conditions. The salt bridge simply threads onto the end of the sensor if replacement is needed.

Reliability with Built-in Encapsulated Preamp

Encapsulated construction protects the sensor's built-in preamp from moisture and humidity, ensuring reliable sensor operation. The preamp in the pH^{HD} analog sensor produces a strong signal, enabling the sensor to be located up to 1000 m (3280 ft.) from the analyzer.

Patented Technology

The former GLI, now a Hach Company brand, invented the Differential Electrode Technique for pH measurement in 1970. The pH^{HD}™ sensor series (U.S. Patent Number 6395158B1, dated May 28, 2002) takes this field-proven technology to a new level.

Specifications

Accuracy:	± 0.02 pH
Body material:	PEEK
Cable Connection:	Analog
Cable Length:	4.5 m
Calibration Method:	Two point automatic, one point automatic, two point manual, one point manual.
Communication:	MODBUS
Diameter:	34.9 mm
Diameter: Flange:	2.5 "
Drift:	per 24 hours, non-cumulative
Electrode Type:	General Purpose
Flow:	max.
Length:	196.3 mm

Material:	Ground Electrode: Titanium
Mounting:	Sanitary
Operating temperature range:	-5 - 105 °C
Pressure Range:	Sensor only (pressure range of mounting hardware to be checked separately)
Process Connection:	2 "
Range:	-2.0 - 14.0 pH
Repeatability:	±
Sensor Immersion Depth:	1.89 in
Sensor Thread:	1" NPT (only at upper end)
Temperature Accuracy:	± 0.5 °C
Temperature Compensation:	automatic with NTC 300 Ω thermistor, or manually fixed at a user-entered temperature, additional selectable temperature correction factors (ammonia, morpholine, or user-defined pH/°C linear slope) available for pure water automatic compensation 0.0 - 50 °
Temperature Sensor:	NTC 300 ohm thermistor for automatic temperature compensation and analyzer temperature readout
Weight:	0.9534 kg

What's in the box?

Includes: sensor with 15 ft cable and manual