



Hach pHD sc Online Process pH Sensor - General Purpose Sanitary Mount pH Sensor

Product #:

ZAR Price:

DPD3P1

Contact Hach

Ships within 3-5 weeks

The smart choice for accurate and reliable online process pH measurement

General Purpose Online Process pH Sensor with Integrated Digital Electronics for "Plug and Play" with Hach Digital SC Controllers - pHD Technology, Glass pH Electrode, PEEK Housing, Sanitary Mount, 10 m Cable

This instrument connects to Claros, Hach's innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiency in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

Exceptional Process pH Sensor Performance with the Differential Electrode pHD 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 pHD 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 pHD 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:	Digital
Cable Length:	10 m PUR (polyurethane) 4-conductor with one shield, rated to $105^{\circ}C$
Calibration Method:	Two point automatic, one point automatic, two point manual, one point manual
Communication:	Modbus
Compliance:	Hazardous location, Maritime, CE
Drift:	0.03 pH per 24 hours, non-cumulative

How Rate:In (10 ft.) per second, maximumLength:271.3 mmMeasuring range:-0.0 14.0 pHMounting:SontaryOperating Temperature Range:-0.0 °C (2.3 -158 °F) pHD and ORPDerating Temperature Range:-0.0 °C (2.3 - 122 °F) SS pHDDerating Temperature Range:Before initial pH calibration, calibrate the temperature measurement when the sensor is in water or buffer which is at approximately the same temperature as the pH buffers (matches current) economedation.Presure Range:Maximum (D.7 ar. 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 10°C Calibration, calibrate the temperature as the pH buffers (matches current) economedation.Presure Range:Maximum (D.7 ar. 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 10°C Calibration, calibrate the temperature as the pH buffers (matches current) economedation.Presure Range:Maximum (D.7 ar. 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 10°C Calibration.Sensor Cable:Maximum (D.7 ar. 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 10°C Calibration.Sensor Cable:Not Galib 11 m Galibration.Storage conditions:4.00 pHStorage conditions:4.00 Calibration.Temperature Compensation:Not Galibration Calibration.Sensor Change:Not Galibration Cautomatic temperature compensation and analyzer temperature at the materiation.Temperature Sensor :NOT Galob chamistion for automatic temperature compensation and analyzer temperature at the materiation.Temperature Sensor :NOT Galob chamistion for automatic temperature compensation and analyzer temperature	Electrode Type:	General Purpose
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Mounting:SanitaryOperating Temperature Range:5-70 °C (23 - 158 °F) pHD and ORP0 - 50 °C (32 - 122 °F) SS pHDPressure Range:Before initial pH calibration, calibrate the temperature measurement when the sensor is in water or buffer which is at approximately the same temperature as the pH buffers (matches current recommendation)Pressure Range:Maximum 10.7 bar . 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 105°C.Repeatability:± 0.05 pHSensor Cable:(integral) 4 10 m (33 ft.) polyurethane, 4-conductor cable with one shield, rated to 105°C (221°F)Sensor Thread:1° NPTStorage conditions:4 - 70°C, 0-95% relative humidity (non-condensing)Temperature Accuracy:± 0.5 °C (± 0.9 °F)Temperature Compensation:40 5 °C (± 0.9 °F)Temperature Sensor :NTC 300 Q thermistor, or manually fixed at a user-entered temperature readout Intera slope) available for pure water automatic compensation 0.0 - 50 °CTemperature Sensor :100 m (328 ft.), maximum Transmission Distance:100 m (3280 ft.), maximum when used with a termination box.Warranty:12 monthsWeight:0.316 kgWetted Materials:PEEK or PPS, salt bridge of matching material with PVDF junction, glass process electrode, and S16 staines ste elegion al albe wetted O-ring materials)	Length:	271.3 mm
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Required Accessories

- SC1000 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)