



Hach pHD sc Online Process pH Sensor - pH Sensor for Clean Water

Kat. číslo produktu:

DPD1R1

CZK Cena bez DPH:

Kontaktujte nás

Dodání do 2 týdnů

The smart choice for accurate, reliable, and dependable pH/ORP measurement.

Differential pH sensor can be used as a flow-through or built-in immersion probe. Integrated digital electronics and patented measurement technology using 3 electrodes.

By the field-proven technique, process and reference electrodes measure the pH differentially with respect to a third ground electrode for excellent measurement accuracy and reduced junction potential.

Due to the closed design, the reference system of this pH electrode does not come into contact with the fluid. The much less soil-sensitive salt bridge reduces the necessary cleaning in comparison with systems fitted with membranes.

The dilution of the electrolyte is prevented and the sensor gets long service life. The sensor runs with digital controllers.

Exceptional Performance with the Differential Electrode 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 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.

Innovative Technology

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

Technické údaje

Compliance:	Hazardous location, Maritime, CE
Délka:	271.3 mm
Délka kabelu:	10 m PUR (polyurethane) 4-conductor with one shield, rated to 105°C
Drift:	0.03 pH per 24 hours, non-cumulative
Hmotnost:	0.316 kg
Jaký je obsah balení:	Includes: sensor with 33 ft cable and manual

Kalibrační metoda:	Two point automatic, one point automatic, two point manual, one point manual.
Komunikace:	Modbus
Koncovka kabelu:	Digital
Materiál:	Ground Electrode: Titanium
Materiál skříně:	PPS
Montáž:	Convertible
Opakovatelnost:	± 0.05 pH
Podmínky skladování:	4 - 70 °C, 0 - 95% relative humidity (non-condensing)
Přenosová vzdálenost:	1000 m maximálně při použití propojovací skříňky
Přesnost:	± 0,02 pH
Přesnost teploty:	± 0.5 °C (± 0.9 °F)
Provozní teplotní rozsah:	-5 - 70 °C (23 - 158 °F) pHd and ORP
	0 - 50 °C (32 - 122 °F) SS pHd
	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)
Průtoková rychlost:	3 m (10 ft.) per second, maximum
Rozsah měření:	-2,0 - 14,0 pH
Rozsah tlaku:	Maximum 10.7 bar . 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analog Sensor at 105°C.
Rozsah vlnových délek:	PEEK or PPS, salt bridge of matching material with PVDF junction, glass process electrode, titanium ground electrode, and FKM/FPM O-ring seals (pH sensor with optional HF-resistant glass process electrode has 316 stainless steel ground electrode, and perfluoroelastomer wetted O-rings; consult factory for other available wetted O-ring materials)
Sensocheck:	± 0,01 pH
Sensor cable:	10 m (33 ft.) polyurethane, 4-conductor cable with one shield, rated to 105°C (221°F)
Teplotní kompenzace:	Automatická s termistorem NTC 300 Ω nebo manuálně nastavená na teplotu zadanou uživatelem, další volitelné teplotní korekční faktory (amonné ionty, morfolin nebo uživatelsky definované pH/°C lineární sklon) jsou dostupné pro automatickou compensation 0.0 to 50 °
Teplotní senzor:	NTC 300 Ω thermistor for automatic temperature compensation and analyzer temperature readout
Typ elektrody:	General Purpose
Záruka:	24 měsíců
Závit senzoru:	1" NPT

Jaký je obsah balení

Includes: sensor with 33 ft cable and manual

Požadované příslušenství

- SC4500 kontrolér, Prognosys, 5x mA výstup, 2 digitální sondy, 100-240 VAC, bez napájecího kabelu (Item LXV525.99A11551)
- SC4500 kontrolér, umožňuje Claros, 5x mA výstup, 2 digitální sondy, 100-240 VAC, bez napájecího kabelu (Item LXV525.99AA1551)
- SC4500 kontrolér, podpora systému Claros, 5x mA výstup, 2 digitální sondy, 100-240 VAC, zástrčka EU (Item LXV525.99CA1551)
- SC4500 kontrolér, Prognosys, 5x mA výstup, 1 digitální sonda, 100-240 VAC, bez napájecího kabelu (Item LXV525.99A11501)
- SC4500 kontrolér, Prognosys, 5x mA výstup, 2 digitální sondy, 24 VDC, bez zástrčky (Item LXV525.99Z11551)