



pHD sc Digital pH sensor, sanitary style, PEEK, 10m cable

Produktnr: DPD3P1.99

SEK Pris: Kontakta oss

Inget leveransdatum anges

The smart choice for accurate and reliable online process pH measurement

Differential pH sensor with integrated digital electronics and patented measurement technology using 3 electrodes. Reduced maintenance time and wide pH measuring range.

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 analogue sensor produces a strong signal, enabling the sensor to be located up to 1000 m (3280 ft.) from the analyser.

Innovative Technology

The former GLI, now a Hach Company brand, invented the Differential Electrode Technique for pH measurement in 1970. The pHD takes this field-proven technology to a new level.

Specifikationer

Arbetsstemperatur : -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)

Compliance: Hazardous location, Maritime, CE

Drift:	0.03 pH per 24 hours, non-cumulative
Elektrodtypep:	General Purpose
Flödeshastighet:	3 m (10 ft.) per second, maximum
Fuktade material:	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)
Garanti :	24 månader
Givargänga:	1" NPT
Kabelanslutning :	Digital
Kabellängd:	10 m PUR (polyurethane) 4-conductor with one shield, rated to 105°C
Kalibreringsmetod :	Two point automatic, one point automatic, two point manual, one point manual
Känslighet:	± 0,01 pH
Kommunikation:	Modbus
Lagringsförhållanden:	4 - 70 °C, 0-95% relative humidity (non-condensing)
Längd:	271.3 mm
Material:	PEEK
Mätområde:	-2.0 to 14.0 pH
Monteringsform:	Sanitary
Noggrannhet:	± 0.02 pH
Överföringsavstånd:	1000 m (3280 fot), maximalt vid användning med kopplingsdosa.
Repeterbarhet:	± 0.05 pH
Sensor cable:	10 m (33 ft.) polyurethane, 4-conductor cable with one shield, rated to 105°C (221°F)
Specialkommentarer:	The sanitary style sensor has an integral 2-inch flange, special cap, and EPDM compound gasket for use with a GLI 2-inch sanitary tee and mounting hardware.
Temperaturgivare:	NTC 300 Ω thermistor for automatic temperature compensation and analyzer temperature readout
Temperaturkompensation:	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 °C
Temperaturnoggrannhet:	± 0,5 °C
Tryckområde:	Maximum 10.7 bar. 6.9 bar for Digital Sensor at 70°C, and 6.9 bar for Analogue Sensor at 105 °C.
Vikt :	0,316 kg

Obligatoriska tillbehör

- SC1000 probmodul för 4 givare, 4x 4 - 20 mA UT, relä, 110 - 240 VAC, EU-kabel (Item LXV400.99.2R121)
- SC1000 displaymodul (Item LXV402.99.00001)