



## pHD Analogue pH sensor, convertible, 1", PEEK, 6m cable

**Produktnr:**

**PD1P1.99**

SEK Pris:

Kontakta oss

Tillgänglig

### The smart choice for accurate and reliable online process pH measurement

Differential wide range pH sensor can be used as a flow-through or built-in immersion probe. 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 can run with digital controllers with a help of digital gateway.

### 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 pHHD 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 pHHD sensor series takes this field-proven technology to a new level.

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## Specifikationer

|                   |                                      |
|-------------------|--------------------------------------|
| Diameter:         | 34.9 mm                              |
| Drift:            | 0.03 pH per 24 hours, non-cumulative |
| Elektrodotyp:     | General Purpose                      |
| Flöde:            | max. 3 m/s                           |
| Garanti :         | 24 månader                           |
| Givargänga:       | 1" NPT at both ends                  |
| Kabelanslutning : | Analog                               |

|                         |                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kabellängd:             | 4.5 m                                                                                                                                                                                                                                                                   |
| Kalibreringsmetod :     | Two point automatic, one point automatic, two point manual, one point manual.                                                                                                                                                                                           |
| Kommunikation:          | MODBUS                                                                                                                                                                                                                                                                  |
| Längd:                  | 196.3 mm                                                                                                                                                                                                                                                                |
| Material:               | Ground Electrode: Titanium                                                                                                                                                                                                                                              |
| Mätområde:              | -2,0 - 14,0 pH                                                                                                                                                                                                                                                          |
| Monteringsform:         | Convertible                                                                                                                                                                                                                                                             |
| Noggrannhet:            | ± 0.02 pH                                                                                                                                                                                                                                                               |
| Omgivningstemperatur:   | -5 - 105 °C                                                                                                                                                                                                                                                             |
| Repeterbarhet:          | ± 0.05 pH                                                                                                                                                                                                                                                               |
| Specialkommentarer:     | pH-Wide Range Generic                                                                                                                                                                                                                                                   |
| 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,<br><br>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:            | max. 10.7 bar Sensor only (pressure range of mounting hardware to be checked separately)                                                                                                                                                                                |
| Vikt :                  | 0,9534 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)
- SC4500-styrenhet, Prognosys, 5x mA-utgång, 2 digitala givare, 100 - 240 VAC, utan nätsladd (Item LXV525.99A11551)
- SC4500-styrenhet, Claros-kompatibel, 5x mA-utgång, 2 digitala givare, 100 - 240 VAC, utan nätsladd (Item LXV525.99AA1551)
- SC4500-styrenhet, Claros-kompatibel, 5x mA-utgång, 2 digitala givare, 100 - 240 VAC, EU-stickkontakt (Item LXV525.99CA1551)
- SC4500-styrenhet, Prognosys, 5x mA-utgång, 1 digital givare, 100 - 240 VAC, utan nätsladd (Item LXV525.99A11501)
- SC4500-styrenhet, Prognosys, 5x mA-utgång, 2 digitala givare, 24 VDC, utan stickkontakt (Item LXV525.99Z11551)