# Polilyte PRO 120

The maintenance free Polilyte Pro sensor is designed for pH measurement in water applications, especially in low conductivity samples, e.g. wastewater, fish farming, ground water, etc. The Single Pore liquid junction guarantees best measurement results because of direct contact between the sample and the Polisolve electrolyte – clogging is nearly impossible.

Price: Quote Required Quantity: 1

Part Number/REF: 238411 / 01

Request Quote

Need Help?

+1-800-648-5950

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Specification Sheet

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## Specifications

| | |
|---|---|
| Measurement Principle | Combination electrode; pH potential measured against reference |
| Measuring Range | pH 0 to 14 |
| Sensitivity | 57 to 59 mV / pH at 25°C |
| Zero-Point | 0 ± 20 mV |
| Membrane / Cap | Hamilton type HF glass |
| Membrane Shape | Cylindrical |
| Diaphragm | Single Pore |
| Number of Diaphragms | 1 |
| Electrolyte | Polisolve |
| Liquid Earth | No |
| Reference System | Hamilton Everef-B |
| Temperature Sensor | No |
| ATEX Approval | CE 0035 II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb, CE 0035 II 1/2 D ia IIIC T x °C Da/Db |
| IECEx Approval | CE 0035 II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb, CE 0035 II 1/2 D ia IIIC T x °C Da/Db |
| Autoclavable | No |
| CIP | No |
| Steam Sterilizable | No |
| Operating Temperature Range | -10 to 60°C |
| Pressure Range | 0 to 6 bar |
| O-ring Material | EPDM |
| Sample: min Conductivity | 2 µS/cm |
| pH glass resistance | low |
| Certificate | Yes, with measured values in Buffer pH 4.01 and pH 7.00 |
| a-length | 120 mm |
| Diameter | 12 mm |
| Process Connection | PG13,5 |
| Electrical Connector | S8 |
| Wetted Parts | Glass, EPDM |

# Declaration of Quality

## Polilyte Pro 120

| | |
|---|---|
| Product number: | 238411/01 |
| Serial number: | 28518 |
| Work order lot number: | 1647497 |
| Reading in (pH 4 Buffer)*: | 180 mV |
| Reading in (pH 7 Buffer)*: | 4 mV |
| Slope (pH 4, pH 7): | better than 97% of theoretical value |
| Response time t90% (pH 4/pH 7): | better than 5 sec |
| Response time t98% (pH 4/pH 7): | better than 20 sec |
| Measuring range: | pH 0 ... 14 |
| Pressure range: | 0 ... 6 bar |
| Temperature range: | -10 ... 60 °C |
| Temperature sensor: | - |

*Measurements are performed in Certified Reference Materials

The parts in contact with the measuring sample (wetted parts) are made of:

| | |
|---|---|
| Shaft: | Glass |
| O-ring: | EPDM 75.5/KW75F, is manufactured in respect to its biocompatibility in compliance with USP Plastic Class VI. The material meets the regulations of the Food and DrugAdministration FDA, Code of Federal Regulations CFR of the United States ofAmerica, Title 21 - Food and Drugs, section 177.2600 - Rubber articles intended forrepeated use in contact with food, and section 177.1520 - Olefin polymers. |
| Reference electrolyte: | Polisolve |

This product meets the requirements of the ATEX directive 94/9/EC and of the IECEx scheme.
The marking of explosion protection is II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb (Gas) /
and Ex ia IIIC T x °C Da/Db (Dust)
EC-type-examination certificate TÜV 03 ATEX 7005 X
IECEX Certificate of Conformity IECEx TUR 14.0001 X (both on www.hamiltoncompany.com)

A change of the measurement values above during storage and use is a normal behavior of electrochemical sensors.

Passed Quality Control: 2015-02-16
This declaration is generated automatically and is valid without signature.

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