

Sensors for pH Measurement

Type 40 Differential pH Sensor

Rugged Glasteel electrolyte-free sensor for high temperature/pressure applications requiring extended insertion lengths



The Type 40 differential pH sensor does not require any internal electrolyte and virtually eliminates the issues that most sensors experience from aging or pollution. Its rugged enamel Glasteel™ exterior and integral temperature sensor (Pt 100) enable the Type 40 to accurately measure pH or ORP, directly in the most challenging process conditions.

Facts

- Robust Glasteel™ construction
- No internal or external electrolyte
- No drift
- Dry storage

- Clean-in-place
- For insertion lengths up to 10 feet
- Minimal maintenance and low cost operation
- In-line “one-point” process calibration
- Not affected by steam sterilization
- Resistant to poisoning and fouling
- Improved accuracy for tighter pH control
- Mounted in any orientation, including large pipelines and reactors
- Approved for explosive environments
 - ATEX Certified (special components required)

Specifications

pH:	3 ... 10 pH
Temperature:	32 ... 285°F (0 ... 140°C)
Pressure:	Normal: Full vacuum ... 600 psig (-1 ... 40 bar), Extended: 0 ... 1,500 psig (0 ... 100 bar)
Temperature detector:	PT 100
Sensor material:	Glasteel
Cable lengths:	5 and 10 m lengths with LEMO™ connector. 212°F maximum temperature (100°C)
Explosion protection classes (ATEX):	II 1/2 G EEx ia IIB T6 or II 2G EEx ia IIC T6
Length:	11.81-126 in (300-3200 mm)
Measuring error:	Max 0.1 pH

Isocorrosion Curve of Ion Sensitive Yellow Glass
(mean values)

