

Sensors for pH Measurement



Ring pH/ORP Sensor

Rugged non-intrusive Gasteel sensor

The Ring style pH electrode's rugged Gasteel™ design accurately measures pH in applications where conventional probes are unstable, drift, and experience short service life.

The ring style probe's design allows it to be installed in-line between two flanges and directly in the product flow. The wear resistant smooth enamel finish uses the product flow to keep the surface of the sensors clean while resisting any potential product buildup that may occur.

Facts

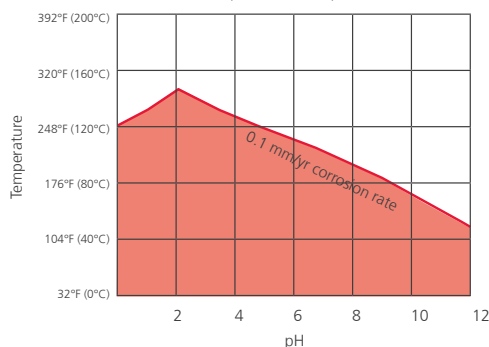
- Rugged Gasteel construction
- No drift
- Single point calibration
- Clean-in-place (CIP), in-line sterilizable
- Space saving design
- Not affected by organics
- Resistant to poisoning and fouling
- Dry storage
- Minimal maintenance and low cost operation
- Improved accuracy for tighter pH control
- Explosion proof - ATEX Certified (special components required)
- Mounted in any orientation

Specifications

pH:	0 to 10 pH (normal), 0 to 14 pH (extended)
ORP:	-1,500 ... 1,500 mV
Temperature:	32 ... 285°F (0 ... 140°C)
Pressure:	Normal: Full vacuum ... 130 psig (-1 ... 9 bar), Extended: 14 ... 1,218 psig (1 ... 84 bar)
Temperature detector:	PT 100
Sensor material:	Gasteel
Reference system:	Ag/AgCl with 1.7 L KCl reservoir
Pipe diameter:	2" (DN50), other pipe diameters can be provided, please consult the factory
Length:	120 mm
Measuring error:	Max 0.1 pH

Isocorrosion Curve of Ion Sensitive Yellow Glass

(mean values)



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Product Range

Components

Ring probe

Electrolyte vessel type N (150 PSIG Max.)

Silver-silver chloride reference electrode type AgAgCl

Electrolyte KCl, 3 x 1 liter (others available)

Electrolyte tubing, 6 x 1 mm, 10 m, made of PA11

Accessories

Gaskets (Select one)

Conductive gasket-set DN 50, graphite filled PTFE with SST ring and Kevlar insert and Kevlar insert

Non-conductive gasket-set DN 50, PTFE with SST ring and Kevlar insert

Abrasion resistant gasket-set DN 50, PTFE with graphite inserts

Cable (select one)

5 m

10 m

Available Separately

Air, Nitrogen regulator

150# raised face flanges

Dimensional Drawing

