

Sensors for pH Measurement

Reiner pH/ORP Sensor

Compact Gasteel sensor for highly corrosive applications

The Reiner absolute pH electrode's small, rugged Gasteel™ design measures pH, ORP and pH compensated ORP. The electrode's high temperature rating, corrosion resistance, and self-cleaning enamel construction make it suitable for use in the most demanding applications. The Reiner can be installed directly into the process without a protective cage.

The Reiner's pressurized reference system eliminates inaccuracy and drift caused by junction potential diffusion or poisoning. The result is a more stable measurement leading to more effective and accurate process control.

Facts

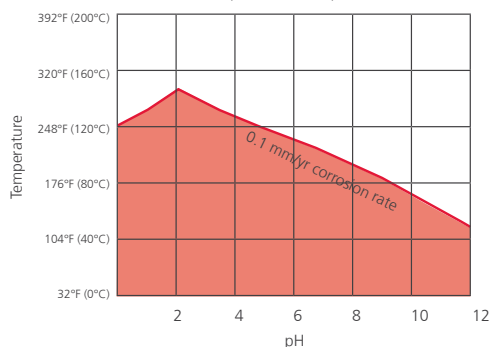
- Rugged Gasteel™ construction
- No drift
- Single point calibration
- Clean-in-place (CIP), in-line sterilizable
- Pressurized flowing reference
- Not affected by organics
- Resistant to poisoning & fouling
- Dry storage
- Minimal maintenance and low cost operation
- Improved accuracy for tighter pH control

Specifications

pH:	0 to 10 pH (normal), -2 to 14 pH (extended)
ORP:	-1,500 ... 1,500 mV
Temperature:	32 ... 284°F (0 ... 140°C)
Pressure:	Full Vacuum ... 87 psig (-1 ... 6 bar)
Temperature detector:	NTC 30 kohms, PT 1000
Sensor material:	Gasteel™, 316 SS, EPDM, and Rhodium
Reference system:	Ag/AgCl with 3 M KCl and inhibitor (1 ml/l colloidal silicic acid)
Junction:	Annular
Length:	120 mm

Isocorrosion Curve of Ion Sensitive Yellow Glass

(mean values)



ETA Process Instrumentation

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Martech Controls

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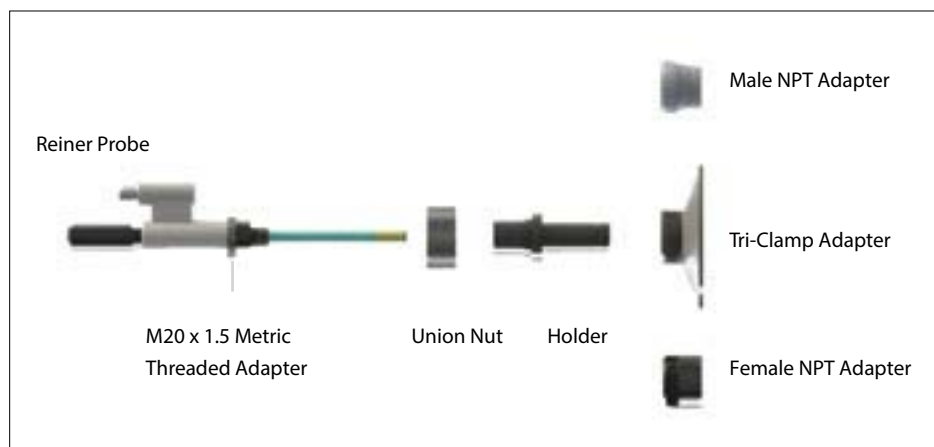
Product Range

Order No.

		1621700 -	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>
Holder material of construction	316 SS	SS							
	Titanium	TT							
	Polypropylene	PP							
Connection Size/Type*	1-1/4" BSP Ingold (25 mm), available only in metal	25IN							
	3/4" MNPT	12NM							
	3/4" FNPT	12NF							
	1" MNPT	16NM							
	1" FNPT	16NF							
	1-1/2" MNPT	24NM							
	1-1/2" FNPT	24NF							
	1-1/2" Tri-clamp, available only in metal	24TC							
	2" Tri-clamp, available only in metal	32TC							
Gasket material	Wetted O-Ring	Non-Wetted O-Ring							
	EPDM	EPDM					EE		
	Kalrez (6375 Grade)	EPDM					KE		
	Kalrez (6375 Grade)	Viton					KV		
	Viton	Viton					VV		
Reservoir	None								X
	1 Liter SS								R

Includes M20 x 1.5 metric threaded adapter.

*) Special materials and connection sizes available upon request.



Calibration

The electrode does not use or require buffers for calibration. Due to the stability of the glass electrode, only a "one-point" calibration is required.

Cable (ordered separately)	Part Number
3 m	1621710
5 m	1621711
10 m	1621712