

REFEX™
sensors ltd

"The First to Last"



Invented in
Germany



NEW PATENT - granted

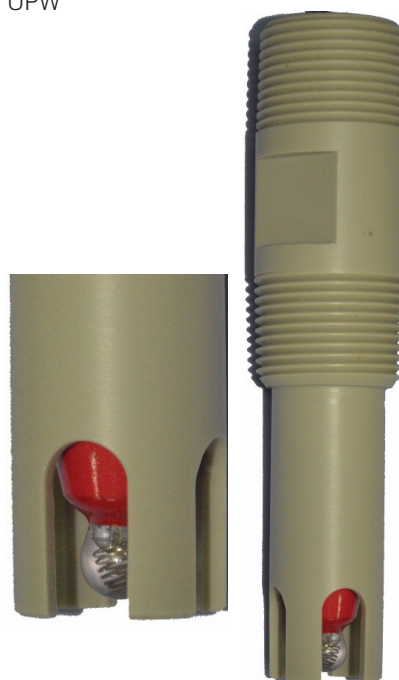
REFEX™ Series 399 1" NPT pH Combination Electrode

Maintenance free REFEX™ Series 399 electrodes are designed for pH measurement in rugged applications. Series 399 combination electrodes feature the patented *REFEX Contact Window*, a non-porous, hard ionically conductive interface/barrier to prevent reference electrode electrolyte loss and poisoning.

Typical application areas: Petro/Chemical, Pulp & Paper, Water Treatment, UPW

Specifications:

Measuring Method:	pH / reference combination electrode
Reference	Patented non-porous Refex interface.
Junction/Half Cell:	Ag/AgCl in KCl 2.8 mol/l (sealed for life)
Range:	pH 0...12
Eo Zero vs Ag/AgCl:	pH = 6.8 (+/- 20 mV)
Impedance pH-glass/ref:	200 MΩ Nom. / <100 kΩ
Temperature Range:	0...100°C / 212°F
Pressure Range:	0...20 bar / 290 psi
Liquid Earth:	Optional 316 SS LE available
Temperature Sensor:	Optional 100Ω/1000Ω RTD
Standard Dimensions:	1" NPT threaded bodies
Electrode Body Material:	PVDF standard; Triton optional
Electrical Connection:	Cable 1m, 5m, 10m, others
Recommended Storage:	Hydrate in 2.8 mol/l KCl, ambient temp.



EC-399-2001-PT1000-LE

Accurate – Low Maintenance – Long Life

Made in
Ireland

TRY-IT / BUY-IT!

free evaluation for new customers

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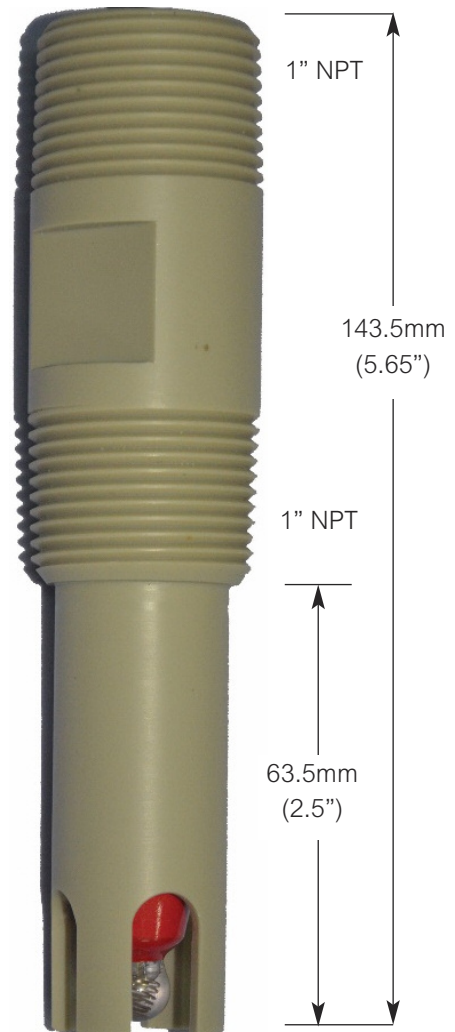


Applications: In-Line and Immersion Systems

- Potable Water Applications
- Optimized Coagulation
- Low Ionic Raw Water and Ultra Pure Water (UPW)
- All Oil & Gas Sour Water
- All Petrochemical Process Water
- Industrial Waste Water
- Waste Water Treatment
- Heavy Metal Processes
- Pulp and Paper

Advantages of Refex Non Porous Electrodes

- Protected Ag/AgCl reference half cell - REFEX Contact Window barrier/interface prevents all liquid contact/exchange
- Resistant to fouling and poisoning
- Suitable for temperatures between 0...100°C / 212°C
- Operates in pressures between full vacuum and 20 bar / 290 psi
- Instantaneous response to pH change
- Constant Eo zero - almost maintenance free
- Long electrode life - many times longer than all others
- Compatible with all modern pH instruments with dual high impedance inputs for pH and reference electrodes.
- No diffusion potential errors in low ionic waters
- No electrolyte refilling - sealed for life



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