

**REFEX™**  
sensors ltd  
"The First to Last"



Invented in  
**Germany**



**NEW PATENT - granted**

# REFEX™ Series 399 1" NPT Redox/ORP Combination Electrode

Maintenance free REFEX™ Series 399 electrodes are designed for Redox/ORP 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, Waste Water Treatment

## Specifications:

Measuring Method:	Redox/ORP glass electrode
Metal:	99.99% Pt ring or rod
Reference Junction / Half Cell:	Patented non-porous Refex interface. Ag/AgCl in KCl 2.8 mol/l (sealed for life)
Range:	> ± 1000mV
Impedance ORP glass/ref:	200 MΩ Nom. / <100 kΩ
Temperature Range:	0...100°C / 212°F
Pressure Range:	0...20 bar / 290 psi
Standard Dimensions:	1" NPT threaded bodies
Electrode Body Material:	PVDF standard; Triton optional
Electrical Connector:	Cable 1m, 5m, 10m, others
Recommended Storage:	Hydrate in 2.8 mol/l KCl, ambient temp.



EC-399-2002

**Accurate – Low Maintenance – Long Life**

Made in  
**Ireland**

# TRY-IT / BUY-IT!

*free evaluation for new customers*

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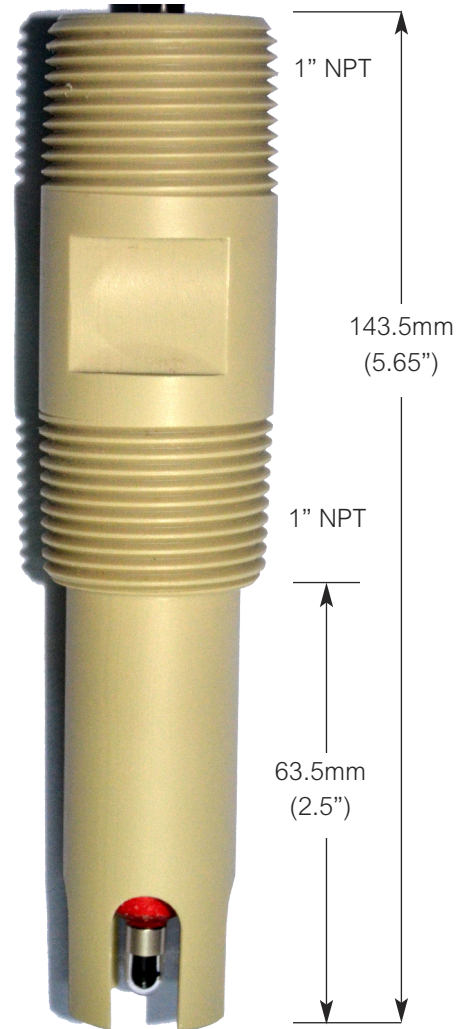


## Applications: In-Line and Immersion Systems

- Potable Water Applications
- Optimized Coagulation
- Low Ionic Raw Water and Ultra Pure Water (UPW)
- All Oil & Gas Sour Water
- All Petrochemical Process Water
- Chemical Process
- 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°F
- Operates in pressures between full vacuum and 20 bar / 290 psi
- Instantaneous response to pH change
- Long electrode life - many times longer than all others
- Compatible with all modern Redox/ORP instruments with high impedance reference input.
- No electrolyte refilling - sealed for life



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