



# REFEX™ 2002 Series 12mm Redox/ORP Combination Electrode

Maintenance free REFEX™ 2002 Series electrodes are designed for Redox/ORP measurement applications in many industries. 2002 Series combination electrodes feature the patented Reflex non-porous, hard ionically conductive interface/barrier to prevent reference electrode electrolyte loss and poisoning

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

## Specifications:

Measuring Method:	Redox/ORP glass electrode
Metal:	99.99% Pt ring or rod
Reference Junction / Half Cell:	Patented non-porous Reflex 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
Pressure Range:	0...20 bar
Standard Dimensions:	12mm x 120, 160 or 225mm
Electrical Connector:	Type S8, S7 Yokogawa, others available Cable 1m, 5m, others
Recommended Storage:	Hydrate in 2.8 mol/l KCl, ambient temp.



S8-2002-120

YG-2002-120



## **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
- Chlor-Alkali - Chlorinated and Waste Brines
- Food and Beverage - CIP and SIP
- Industrial Waste Water
- Waste Water Treatment
- Heavy Metal Processes
- Pulp and Paper

## **Advantages of Reflex Non Porous Electrodes**

- Protected Ag/AgCl reference half cell - REFEX barrier/interface prevents all liquid contact/exchange
- Resistant to fouling and poisoning
- Suitable for temperatures between 0...100°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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