

## KYNAR pH/ORP SENSORS

- **Differential Electrode Technique minimizes measurement errors caused by ground loop currents reference electrode contamination and precipitate build-up**
- **Automatic temperature compensation**
- **Durable Kynar<sup>(1)</sup> provides excellent chemical resistance**
- **Flow-thru and submersion styles**
- **Mounting hardware for easy installation**

### Description:

Kynar pH and ORP sensors combine Differential Electrode Technique of measurement and the chemical resistance of these proven materials. The wetted parts of the sensor body are Hastelloy 'C' or Kynar. These material have excellent resistance to most harsh chemicals encountered in industrial processes, including many solvent.

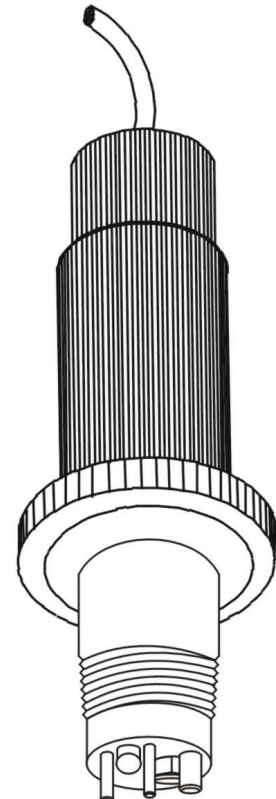
Temperature compensation is automatic and the sensor's integral preamplifier provides an output signal which can be transmitted up to 3000 feet over inexpensive cable without degradation. The field-proven Differential Electrode Technique provides exceptional performance and reliability in the most demanding applications

The standard solution buffer in the standard electrode seldom requires replacement. When necessary, this is accomplished by simply unscrewing the double junction salt bridge for access to the standard electrode. This reduces system downtime and the risk of electrode breakage. Uniquely constructed standard electrode provides the stability and accuracy for which differential measurements are noted. Occasional cleaning of the process electrode is the only other maintenance required. Sensors stay "on-line" and provide accurate measurements under conditions that often render conventional pH and ORP sensors inoperable.

Kynar pH and ORP sensors are offered in flow-thru style. Process seals are compression type Viton o-rings. Kal Rez<sup>(2)</sup> o-rings are available for maximum chemical resistance. Flow-thru sensors have a PVC lock ring and cover and are non-wetted parts. Optional flow-thru mounting hardware assembly provides a stainless tee and aluminum, surface mount junction box with terminal strip. Interconnect cable is available for wire runs between the junction box and instrument.

(1) Tradename of the Pennwalt Corp.

(2) Tradename of the E. I. duPont deNemours & Co.



Model 6136PO  
Ryton pH Sensor

### SPECIFICATIOS

#### Kynar

Wetted Materials:	pH.....	Kynar body, Kynar or ceramic salt bridge, glass process electrode, Hastelloy 'C' ground electrode and Viton or kal-Rez seals
	ORP....	Same as above except process electrode is glass with platinum or gold
Measuring Range:	pH.....	0 to 14 pH
	ORP....	(-) 2000 to (+) 2000 millivolts
Temperature Range.....		-5 to 95°C (23 to 203°F) in steel or plastic hardware fitting
Maximum Pressure.....		100 psig in steel or plastic hardware fitting
Maximum flow rate.....		10 feet per second. Note – if possible, flow rate should be minimal for low conductivity
		water or solution high in suspended solids.
Stability pH.....		0.03 pH units per day, non-cumulative
ORP.....		0.1 millivolts
Sensor Cable.....		5 conductor plus shield

**Ordering Information**

**pH/ORP sensor selection table**

	Model No.			Materials of Construction	
	pH	ORP		Lock Ring & Cover	O-Ring Seal
<b>KYNAR SENSORS</b>	6136PO	2136RO	Flow-Thru with 10 ft. cable	PVC	Viton
	6136POA	2136ROA	Flow-Thru with 10 ft. cable	PVC	Kal-Rez
<b>HASTELLOY C</b>	6138POA	2138ROA	Flow-Thru with 10 ft. cable	PVC	Kal-Rez

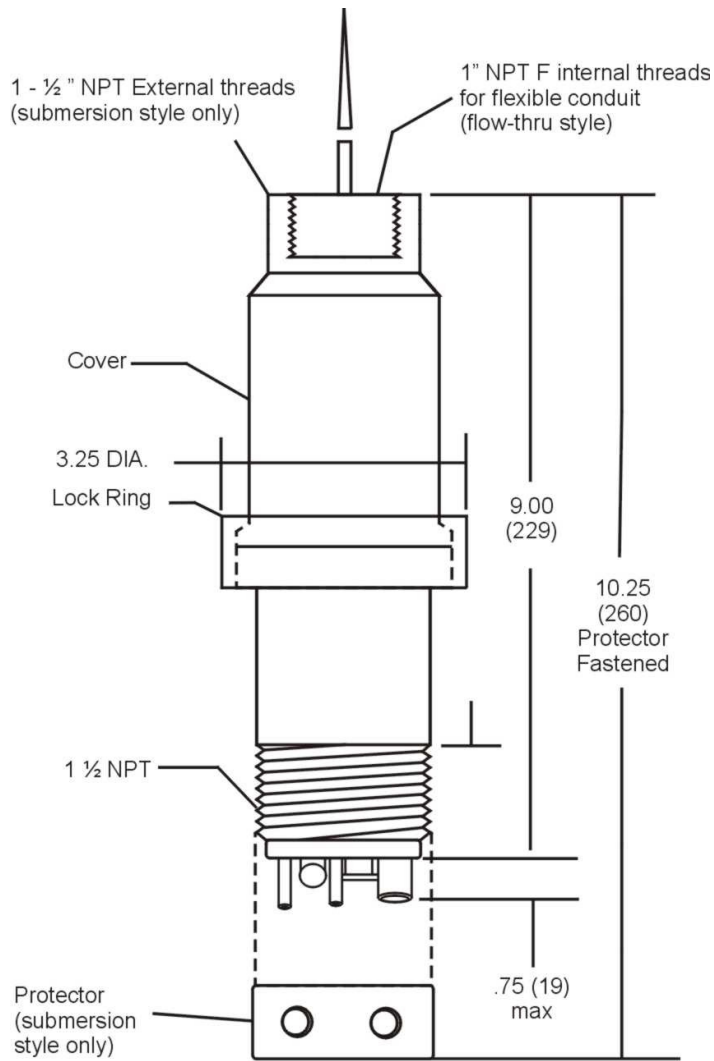
\*Includes removable PVC electrode protector.

Notes:

1. Mounting hardware assemblies must be ordered as separate line items.
2. Interconnect cable (5 conductor plus shield) must be ordered separately. Typically, 50 ft. is recommended for each installation.

**Sensor Dimensions**

Inches



All Dimensions in mm



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For Upgradation, BI reserves the rights to alter the specifications at any time.