

# LINEAR POLARIZATION RESISTANCE (LPR) PROBE

**Model 7212/7222**

TWO-ELECTRODE



## Specifications

- **Mounting - 3/4" NPT Fixed**
- **Temp. Rating — +300° F/ +150° C**
- **Pressure Rating — 1500 PSI/10.3 MPa (Model 7212)  
— 4000 PSI/27.6 MPa (Model 7222)**
- **Electrode Seal Material — Glass Reinforced Epoxy/Viton (Model 7212)  
— Glass/Viton (Model 7222)**
- **Fill Material - Epoxy**
- **Body Material - Stainless Steel**

This Linear Polarization Resistance probe employs two identical electrodes which are mounted at the end of the probe by threaded, insulated studs. The glass reinforced epoxy electrode header used on the Model 7212 provides insulation and is preferred at high pH ranges over the glass sealed Model 7222. Two electrode probes are suitable for the majority of problems where LPR techniques are applicable. When monitored by "Solution Resistance Compensating" instruments such as the

Corrdata® RDC, Aquamate™ or Model 9030, they may be used in low conductivity solutions (see Fig. 1 of the LPR Probe Selection Guide). LPR Probes are used by major companies worldwide to measure corrosion in water floods, cooling water loops and other aqueous systems and to provide data to control inhibitor addition for optimum economy and corrosion protection. These probes may not be removed under system pressure.

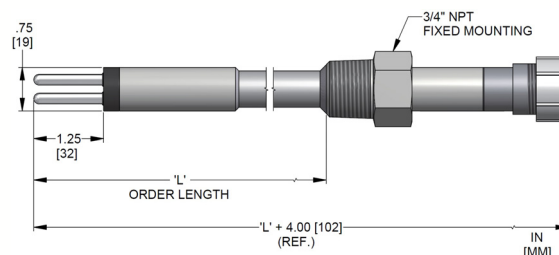
## Element Availability

UNS Number	Alloy	UNS Number	Alloy
K03005	Pipe Grade Carbon Steel	C11000	Copper 110 ETP
S30400	304 S.S.	C70610	Cu/Ni 90/10
S30403	304L S.S.	A91100	Aluminum 1100
S31600	316 S.S.	R50400	Titanium GR2
S31603	316L S.S.	C44300	Ars. Ad. Brass CDA #443
N08020	Carpenter 20 Cb3	A92024	Aluminum 2024
N04400	Monel 400	060942	D.G.M. (Galvanic)
C71500	Cu/Ni 70/30		

**Table 1**



All elements are furnished "as machined" unless otherwise specified. Exceptions are Mild Steel which is vacuumed annealed.

Electrodes are also available as individual sets with part number 060814-XXXXXX, where XXXXXX is the UNS alloy number.



## Ordering Information

**Note:** For high velocity process conditions it is recommended that Wake Frequency Calculations be performed – please contact a Cosasco representative for further details.

Model	Fixed NPT Mounting LPR Probe Assembly					
7212	Complete probe assembly without electrodes					
7222	Complete probe assembly without electrodes					
	<b>Code</b>	<b>Order Length</b>				
	0	Standard Length 5.55 inches/140.9 mm				
		<b>Code</b>	<b>Element Alloy: See Table 1</b>			
		XXXXXX	Enter UNS Number: Enter 0 if not required			
7212	—	0	—	K03005	←	Example
7222	—	0	—	K03005	←	Example

**Note:** Electrodes are packaged separately to avoid damage to the surface.

**Unit Weight:** Probe Assembly: 3 lbs./1.36 kg

### Cosasco

11841 Smith Avenue  
Santa Fe Springs, CA 90670, USA  
Tel: 1-562-949-0123  
Email: [sales@cosasco.com](mailto:sales@cosasco.com)  
Web Site: [www.cosasco.com](http://www.cosasco.com)

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