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**

<table>
<thead>
<tr>
<th>UNS Number</th>
<th>Alloy</th>
<th>UNS Number</th>
<th>Alloy</th>
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<tbody>
<tr>
<td>K03005</td>
<td>Pipe Grade Carbon Steel</td>
<td>C11000</td>
<td>Copper 110 ETP</td>
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<tr>
<td>S30400</td>
<td>304 S.S.</td>
<td>C70610</td>
<td>Cu/Ni 90/10</td>
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<td>S30403</td>
<td>304L S.S.</td>
<td>A91100</td>
<td>Aluminum 1100</td>
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<td>S31600</td>
<td>316 S.S.</td>
<td>R50400</td>
<td>Titanium GR2</td>
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<td>S31603</td>
<td>316L S.S.</td>
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<td>Ars. Ad. Brass</td>
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<td>A92024</td>
<td>Aluminum 2024</td>
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<td>N04400</td>
<td>Monel 400</td>
<td>060942</td>
<td>D.G.M. (Galvanic)</td>
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<td>C71500</td>
<td>Cu/Ni 70/30</td>
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**Table 1**

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

**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**
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7212 | Complete probe assembly without electrodes
7222 | Complete probe assembly without electrodes

<table>
<thead>
<tr>
<th>Code</th>
<th>Order Length</th>
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<tbody>
<tr>
<td>0</td>
<td>Standard Length 5.55 inches/140.9 mm</td>
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</tbody>
</table>

**Code** | **Element Alloy:** See Table 1
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XXXXXX | Enter UNS Number: Enter 0 if not required

**Example**

7212 | 0 | K03005
7222 | 0 | K03005

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

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

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