Model 4800
CORROSOMETER® Probe

Specifications:
• Mounting — COSASCO® 2" System
• Temp. Rating — 500 °F/260 °C
• Pressure Rating — 6000 PSI/42.3 MPa
• Element Seal Material — Epoxy
• Probe Body Material — 316L S.S.

The Model 4800 probe is designed for applications in oil and gas systems where a larger measurement surface area is desired and a shorter penetration into the pipe is required. This element geometry provides greater strength for high or turbulent flow environments and has a greater resistance to iron sulfide bridging. Due to a larger probe diameter, a shield is not required.

The higher intrinsic resistance of this element design improves the reading resolution and the capability to measure low corrosion rates. This high pressure probe is available in element spans of 5, 10 or 20 mils and can be read by any CORROSOMETER® instrument. The Model 4800 probe is also available as a CORROSOMETER® model which includes an RTD for simultaneous process temperature measurement with the CORRDATA® RDC-COT and Mate II or the Model CK-4.

Standard probe adapters are required for making connection between the probe and the monitoring instrument: P/N 028068 for continuous monitoring instrumentation and P/N 028043 for portable instruments.

The ORDER LENGTH is determined by the following formula:

Ordering Length = P + T + 1.25"
Where:  
P = Penetration required into pipe or vessel.  
T = Wall thickness of pipe or vessel.

Note: Formula is based on standard access fitting height of 5.25 inches and 1/16" weld gap per ANSI B31.1.

Example: 6" Sch. 80 pipe with 3" penetration required; 3" + 0.432" + 1.25" = 4.682". Round 4.682" Down to next 1/4" for an ordering length of 4.50".
Element Availability:

<table>
<thead>
<tr>
<th>UNS Number</th>
<th>Alloy Code</th>
<th>Alloy</th>
<th>S10</th>
<th>S20</th>
<th>S40</th>
<th>UNS Number</th>
<th>Alloy Code</th>
<th>Alloy</th>
<th>S10</th>
<th>S20</th>
<th>S40</th>
</tr>
</thead>
<tbody>
<tr>
<td>K03005</td>
<td></td>
<td>Pipe Grade Carbon Steel</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>S31600</td>
<td>8020</td>
<td>316 S.S.</td>
<td>■</td>
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<tr>
<td>S30400</td>
<td>8013</td>
<td>304 S.S.</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>S31603</td>
<td>8021</td>
<td>316L S.S.</td>
<td>■</td>
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<tr>
<td>S30403</td>
<td>8014</td>
<td>304L S.S.</td>
<td>■</td>
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</tbody>
</table>

Inches
Useful Range (mm) 0.005 .127 .254 .508
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Table 1
Other element alloys may be supplied subject to material availability

Ordering Information:

<table>
<thead>
<tr>
<th>Model</th>
<th>Retrievable Corrosometer Probe – Spiral Strip Element</th>
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</thead>
<tbody>
<tr>
<td>4800</td>
<td>Complete Probe Assembly</td>
</tr>
</tbody>
</table>

**Code**
- S10: Spiral Strip Element, 10 mil thickness (5 mil useful probe life)
- S20: Spiral Strip Element, 20 mil thickness (10 mil useful probe life)
- S40: Spiral Strip Element, 40 mil thickness (20 mil useful probe life)

**Ordering Information**

**Model**
- 4800 S10 K03005 2.00 0 Example

**Note:** (1) Probe connecting adaptors are as follows - for portable instruments 028043, for permanent connection 028068.

**Unit Weight:**
- Probe length 2.00" - 12", 3 lbs. / 1.36 kg.
- Probe length 12.25" - 24", 4.5 lbs. / 2.04 kg.
- Probe length 24.25" - 36", 6 lbs. / 2.72 kg.

**Recommended:**

**Overshot Adapter:** P/N 126292
An overshot adapter is not required, but is recommended for use with the 4800 probe. It permits removal and installation of hollow plug with probe and a steel pipe plug in place (keeps inside of probe area clean and dry).