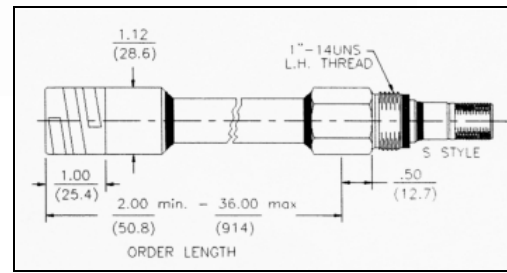


# Model 4800 CORROSOMETER® Probe

## SPIRAL ELEMENT



### 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:

$$\text{Ordering Length} = P + T + 1.25''$$

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:

UNS Number	Alloy Code	Alloy	S10	S20	S40	UNS Number	Alloy Code	Alloy	S10	S20	S40
K03005	-----	Pipe Grade Carbon Steel	■	■	■	S31600	8020	316 S.S.	■	■	■
S30400	8013	304 S.S.	■	■	■	S31603	8021	316L S.S.	■	■	■
S30403	8014	304L S.S.	■	■	■						
<b>Inches</b>			.005	.010	.020	<b>Inches</b>			.005	.010	.020
<b>Useful Range (mm)</b>			.127	.254	.508	<b>Useful Range (mm)</b>			.127	.254	.508

**Table 1**

Other element alloys may be supplied subject to material availability

## Ordering Information:

Model	Retrievable Corrosometer Probe – Spiral Strip Element	
4800	Complete Probe Assembly	
	<b>Code</b>	<b>Element Form: See Table 1 for Availability</b>
	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)
	<b>Code</b>	<b>Element Alloy: See Table 1 for Availability</b>
	XXXXXX	Enter UNS Number
	<b>Code</b>	<b>Order Length</b>
	XX.XXX	Inch Order Length in "Increments from 2.00" to 36.00"
	<b>Code</b>	<b>Connector</b>
	0	"S" Type With Shrouded Pins <sup>(1)</sup>
<b>4800</b>	<b>S10</b>	<b>K03005</b>
	<b>2.00</b>	<b>0</b>
<b>Example</b>		

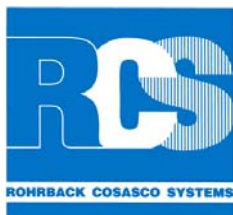
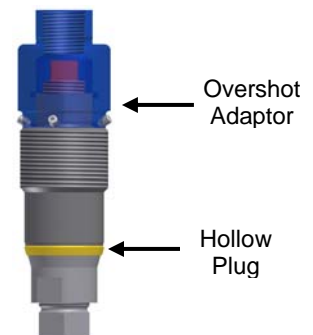
**Note:** <sup>(1)</sup> Probe connecting adaptors are as follows - for portable instruments 028043, for permanent connection 028068.

**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 overshoot 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).



Rohrback Cosasco Systems, Inc.  
 11841 East Smith Avenue  
 Santa Fe Springs, CA 90670, USA  
 Tel: (1) 562-949-0123 Fax: (1) 562-949-3065  
 US Toll Free: 800-635-6898  
 E-Mail: [sales@cosasco.com](mailto:sales@cosasco.com)  
 Web Site: [www.cosasco.com](http://www.cosasco.com)

