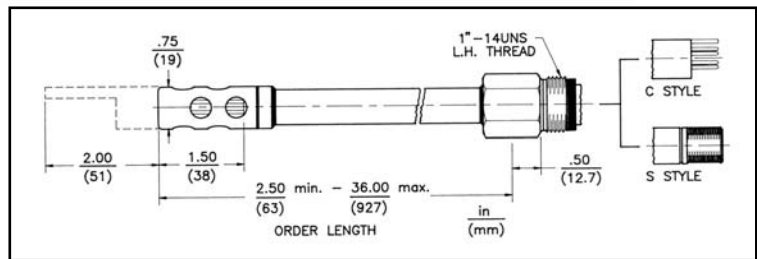


# Model 4605 CORROSOMETER<sup>®</sup> Probe

HIGH PRESSURE LOOP



## Specifications:

- **Mounting** — COSASCO<sup>®</sup> 2" System
- **Temp. Rating** — +500 °F/+260 °C
- **Pressure Rating** — 6000 PSI/41.3 MPa (Wire Loops)  
3600 PSI/24.8 MPa (Tube Loops)
- **Element Seal Material** — Glass
- **Fill Material** — Ceramic
- **Probe Body Material** — 316L S.S. or Hastelloy C-276

A new style of the Model 4605 probe is now available with an even more durable construction and incorporating a connector with shrouded pins to prevent accidental damage. It is recommended for all new installations. This new style incorporates welded shields where required and requires a different probe connecting adaptor (see order details).

This high pressure probe can be read by any CORROSOMETER<sup>®</sup> corrosion monitoring instrument. The rugged probe body is 316L Stainless Steel or Hastelloy C-276 that, when used as part of a High Pressure Access System withstands working pressures to 6000 PSI (41.3 MPa) and temperatures to +500EF (+260EC). Wire Loop probes should not be used where pitting corrosion is severe.

Probe adaptors are required to make the cable connection to the probe.

**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 upon 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" + .432" + 1.25" = 4.682". Round 4.682" down to next 1/4" for an ordering length of 4.5".

## Element Availability:

UNS NUMBER	ALLOY CODE	ALLOY	T4	T8	W40	W80	UNS NUMBER	ALLOY CODE	ALLOY	T4	T8	W40	W80					
K03005	-----	PIPE GRADE CARBON STEEL	■	■	■	■	S41000	8030	410 S.S.			■						
S30400	8013	304 S.S.		■	■		N04400	8054	MONEL 400			■						
S30403	8014	304L S.S.		■	■	■	N10665	8086	HASTELLOY B2			■						
S31600	8020	316 S.S.	■	■	■	■	N10276	8088	HASTELLOY C-276			■						
S31603	8021	316L S.S.	■	■	■	■	R50400	8093	TITANIUM GR 2 & 4			■						
S32100	8024	321 S.S.			■													
			INCHES USEFUL RANGE (mm)				.002 .051	.004 .100	.010 .250	.020 .510	INCHES USEFUL RANGE (mm)				.002 .051	.004 .100	.010 .250	.020 .510

**Table 1**

Other element alloys or styles may be supplied subject to material availability.

## Ordering Information:

Model	Retrievable Corrosometer <sup>®</sup> Probe, Glass Sealed and Tube Loop Element
4605	Complete Assembly
	<b>Code</b> <b>Element Form: See Table 1 for Availability</b>
	T4 Tube Loop, 4 mil thickness (2 mil useful probe life) (up to 3600 PSI / 24.8 MPa)
	T8 Tube Loop, 8 mil thickness (4 mil useful probe life) (up to 3600 PSI / 24.8 MPa)
	W40 Wire Loop, 40 mil diameter (10 mil useful probe life) (up to 6000 PSI / 41.3 MPa)
	W80 Wire Loop, 80 mil diameter (20 mil useful probe life) (up to 6000 PSI / 41.3 MPa)
	<b>Code</b> <b>Element Alloy: See Table 1 for Availability</b>
	XXXXXXX Enter UNS Number See Table 1 for Availability
	<b>Code</b> <b>Order Length</b>
	XX.XXX Inch Order Length in 1/4" increments from 2.50" to 36.00"
	<b>Code</b> <b>Shield</b>
	1 Standard (liquids to 20 ft/sec, gases to 60 ft/sec)
	2 High Velocity (liquids to 50 ft/sec, gases to 150 ft/sec)
	3 Coupon Holding (liquids to 20 ft/sec, gases to 60 ft/sec)
	<b>Code</b> <b>Connector</b>
	0 "S" Type With Shrouded Pins (New Type) (1)
	1 "C" Type (Old Style) (1)
	<b>Code</b> <b>Body Material</b>
	0 316 Stainless Steel
	1 Hastelloy C-276
<p><b>4605</b> — <b>W40</b> — <b>K03005</b> — <b>6.00</b> — <b>1</b> — <b>0</b> — <b>0</b> ← <b>Example</b></p>	

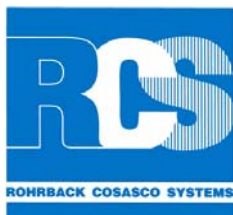
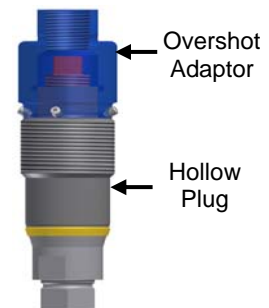
**NOTE:** New style probe with shrouded pins has probe connecting adaptors as follows — for portable instrument 028043, for permanent connection 028068. Old style probe used connecting adaptors — for portable instrument 060913, for permanent connector 745046.

### UNIT WEIGHT:

Probe length 3.25" - 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 4605 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).



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