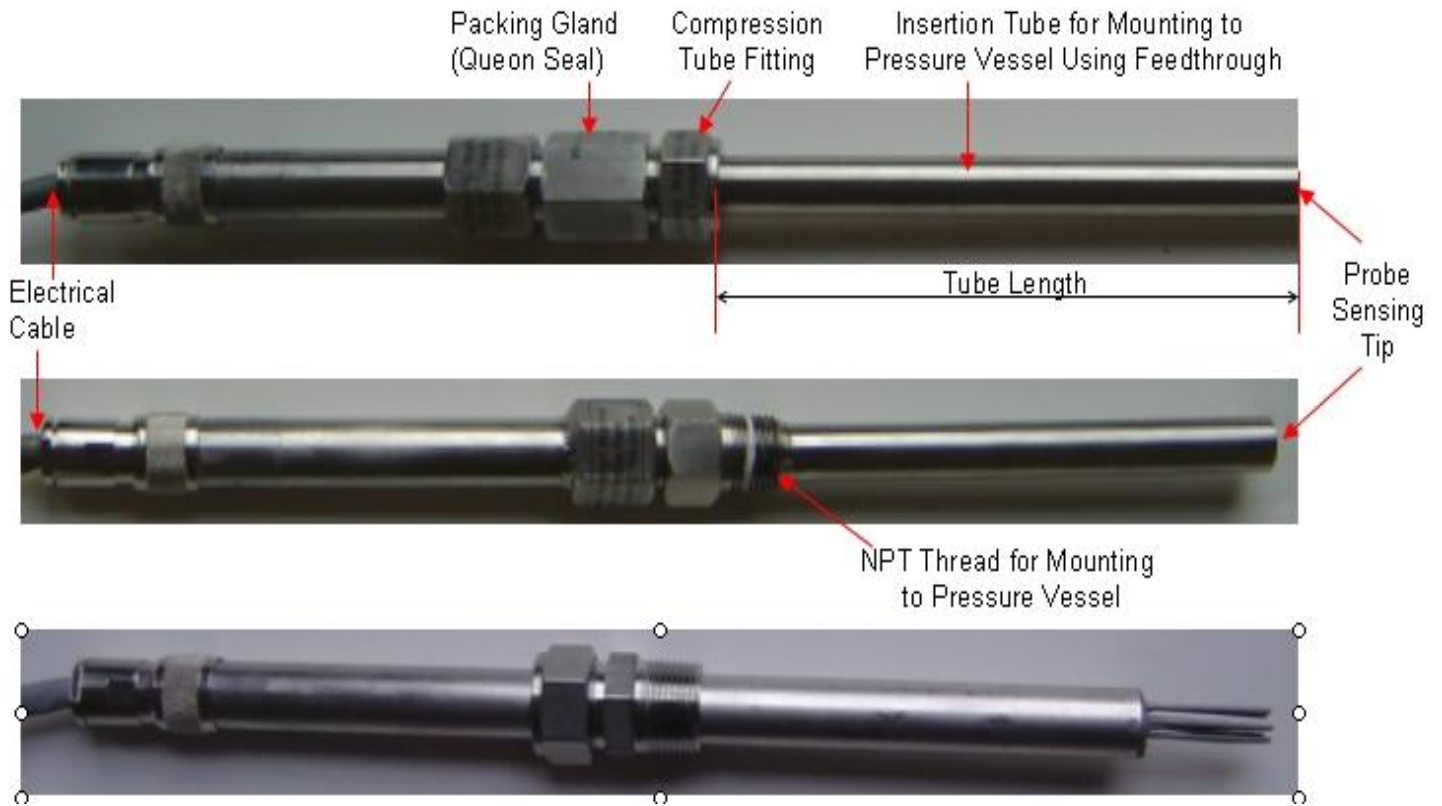


(3) CMS Probes for High Temperatures and High Pressures



Typical Applications:

- Quantitative or Qualitative Corrosion Monitoring of:
 - Pitting corrosion
 - Crevice corrosion
 - General corrosion (most types)
- In the following conditions:
 - Super critical water systems
 - Steam generators
 - High temperature and/or high pressure reactors
 - High pressure pipelines
 - Furnaces
 - Fireside of boilers
 - Flue gas stacks

How to Order High-Temperature, High-Pressure Corrosion Probes:

More details see
Table 5 and table 6

Example: G10100-40-0-16-C-750-1-2-750-12-E-M-10

SEM-SED-SEL-NE-PF-PFS-PFMC-TMC-TOD-TL-In-CT-CL



Sensing Electrode Material in UNS
(e.g., G10100 for CS 1010,
S30400 for SS 304)

Sensing Electrode Diameter in mil (inch×1000
e.g. 40 for 0.04", 75 for 0.075")

Sensing Electrode Length in inch times 1000 (e.g.
250 for 0.25"), 0 for flush mounted electrodes

Number of Electrodes in the Probe (e.g. 8, 9, 16, 25)

Pressure Fitting Type: C for Compression
Tube Fitting N for NTP fitting

Pressure Fitting Nominal Size in inch times 1000
(e.g. 750 for 3/4")

Probe Fitting Material Code
e.g. 1 for SS 304 2 for SS 316
3 for C276 4 for Others

Cable length in foot

Connector Type
M for Military
D for D-Shape connector

Insulator:
C for Ceramic
P for PTFE

Tube Length in inches, see Table 5

Tube Outside Diameter in inches times 1000
(e.g. 750 for 3/4"). Standard TOD varies
depend on SED and NE (see Table 6)

Tube Material Code
e.g. 1 for SS 304 2 for SS 316
3 for C276 4 for Others

Table 5. Details for Ordering High Temperature and High Pressure CMS Probes with Flush-Mounted or Exposed Electrodes

Order Code	Selections
Sensing Electrode Materials (SEM)	Carbon steels, stainless steels (304, 316, etc), Al-based alloys, Ni-based alloys, Cu-based alloys
Sensing Electrode Diameter (SED)	0.5 mm to 3 mm (0.01" to 0.12")
Sensing Electrode Length (SEL)	5mm to 75 mm (0.2 to 4") for exposed electrodes, 0 for flush mounted electrodes
Number of Electrodes (NE)	8 to 25
Probe Fitting (PF)	C for Compression Tube Fitting (5/8" to 1"), N for NTP Fitting (1/2" to 7/8")
Probe Fitting Size (PFS)	5/8" to 1" for Compression Tube Fitting, 1/2" to 7/8" for NTP Fitting --> Details See Table 6
Probe Fitting Material Code (PFMC)	1-304 SS, 2-316 SS, 3-C276, 4-others
Tubing Material Code (TMC)	1-304 SS, 2-316 SS, 3-C276, 4-others
Tubing Outside Diameter (TOD)	15.88 mm to 25.4 mm (5/8" to 1") ----> Details See Table 6
Tubing Length (TL)	5cm to 100 cm (2" to 40")
Insulator (In)	C for Ceramic, P for PTFE
Connector Type (CT)	M for Military Connector, D for D-Shape Computer Cable Connector
Cable Length (CL)	1 to 90 m (3 to 300 ft)

Table 6. Standard Tube and Fitting Nominal Size for Different High Temperature and High Pressure CMS Probe Configurations*

Sensing Electrode Diameter (SED)	Number of Electrodes (NE)	Tube Outside Diameter (TOD)	Probe Fitting Nominal Size (PFS)	
			Compression Fitting	NTP Fitting
0.5 to 1.5 (0.021 to 0.0625")	8-10	15.88 mm (5/8")	15.88 mm (5/8")	12.7 mm (1/2")
	11-16	19.05 mm (3/4")	19.05 mm (3/4")	15.88 mm (5/8")
	17-25	25.4 mm (1")	25.4 mm (1")	19.05 mm (3/4")
1.6 to 3 (0.0626" to 0.118")	8-10	19.05 mm (3/4")	19.05 mm (3/4")	15.88 mm (5/8")
	11-16	25.4 mm (1")	25.4 mm (1")	19.05 mm (3/4")

* Non-standard configurations are available. Contact factory.