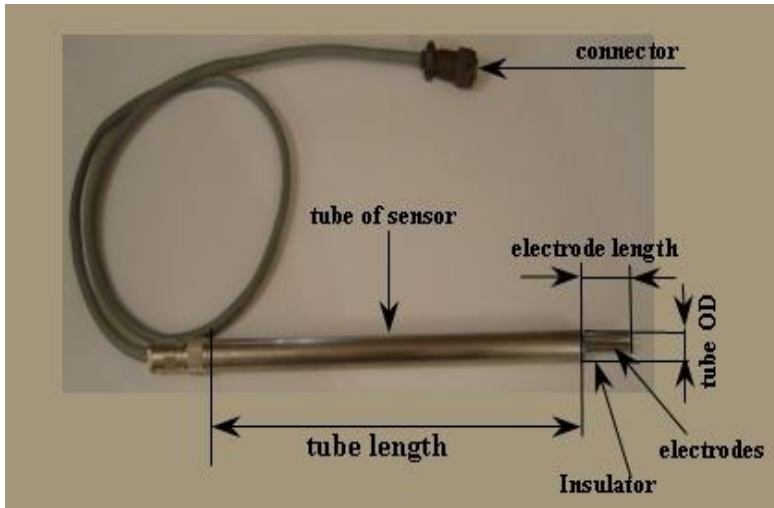


(2) CMS Probes With Exposed Electrodes



Typical Applications:

- Qualitative Corrosion Monitoring for:
 - Pitting corrosion
 - Crevice corrosion
 - General corrosion (most types)
 - Cathodic/anodic protection (PDF) effectiveness
 - Coating evaluation
- in the following environments:
 - Aqueous solution
 - Soil
 - Oil-water mixture
 - Under biodeposits
 - Under coating (PDF)

Exposed electrodes increase the sensing signal for an extremely low corrosion rate and reduce the effect of crevice between the electrodes and the insulation materials. An exposed electrode can be painted with coatings and be used for undercoating corrosion monitoring.

How to Order:

More details see Table 3 and table 4

Example: G10100-40-250-16-2-750-12-E-M-10

SEM-SED-SEL-NE-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 (inchx1000
e.g. 40 for 0.04", 75 for 0.075")

Sensing Electrode Length in inch times 1000
(e.g. 250 for 0.25")

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

Tube Material Code
e.g. 1 for SS 304 2 for SS 316
3 for C276 4 for PVC
5 for Nylon 6 for Others

Cable length in foot

Connector Type
M for Military
D for D-Shape connector

Insulator
E for Epoxy
P for PTFE

Tube Length in inches **See Table 3**

Tube Outside Diameter in inches times 1000
(e.g. 750 for 3/4", 500 for 1/2"). Standard TOD varies depend on SED and NE, See Table 4)

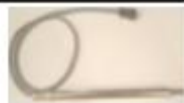


Table 3. Details for Ordering the CMS Probes with Exposed Electrodes	
Order Code	Selections
Sensing Electrode Materials(SED)	Carbon Steels, Stainless Steels (304, 316, etc), Al-based Alloys, Ni-Based Alloys, Cu-Based Alloys
Sensing Electrode Diameter (SED)	1 mm to 4 mm (0.04" to 0.16")
Sensing Electrode Length (SEL)	5mm to 75 mm (0.2 to 4")
Number of Electrodes(NE)	9, 16, 25 for corrosion monitoring, up to 100 for lab studies
Tubing Material Code(TMC)	1 for 304 SS, 2 for 316 SS, 3 for C276, 4 for PVC, 5 for Nylon, 6 for others
Tubing Outside Diameter(TOD)	15.88 mm to 31.75 mm (5/8" to 5/4") ----> Details See Table 4
Tubing Length (TL)	5cm to 100 cm (2" to 40")
Insulator (In)	E for Epoxy, 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 4. Standard Tube Nominal Size for Different Electrode-Exposed CMS Probe Configurations*		
Sensing Electrode Diameter (SED)	Number of Electrodes (NE)	Tube Outside Diameter (TOD)
1 to 2 mm (0.04 to 0.08")	8-9	15.88 mm (5/8")
	10-16	19.05 mm (3/4")
	17-25	25.4 mm (1")
2.01 to 4 mm (0.081" to 0.16")	8-8	19.05 mm (3/4")
	10-16	25.4 mm (1")
	17-25	31.75 mm (1.25")
* Non-standard configurations are available. Contact factory.		