

GENERAL

Caproco offers a range of high quality, high integrity linear polarization probes which utilize a flush element configuration to measure the rate of corrosion. The sensing element is mounted flush in a supporting substrate to overcome any effects associated with edge corrosion.

LPR Probes provide the user with a direct, instantaneous measurement of the corrosion rate based on the linear polarization resistance technique. A qualitative pitting tendency can also be obtained for the metal and the electrolyte being studied.

APPLICATION

The Caproco Linear Polarization Resistance probe offers the advantage of fast response to changes in corrosive conditions that exist in the system being monitored. This rapid response allows the operator to evaluate the process changes and inhibition program, and make necessary adjustments.

The flush element is designed to reproduce the precise corrosion behaviour at the wall of the pipe or vessel, as well as allowing pigging operations to be undertaken without the requirement of probe retrieval. The probe is available in 2 or 3 element configurations.

SPECIFICATIONS

Caproco LPR probes are manufactured from 316 stainless steel with standard AISI 1018 mild steel elements. Probe bodies and elements are available in alternative materials upon request. Standard probes are designed for mounting through a Caproco Hollow Plug assembly.

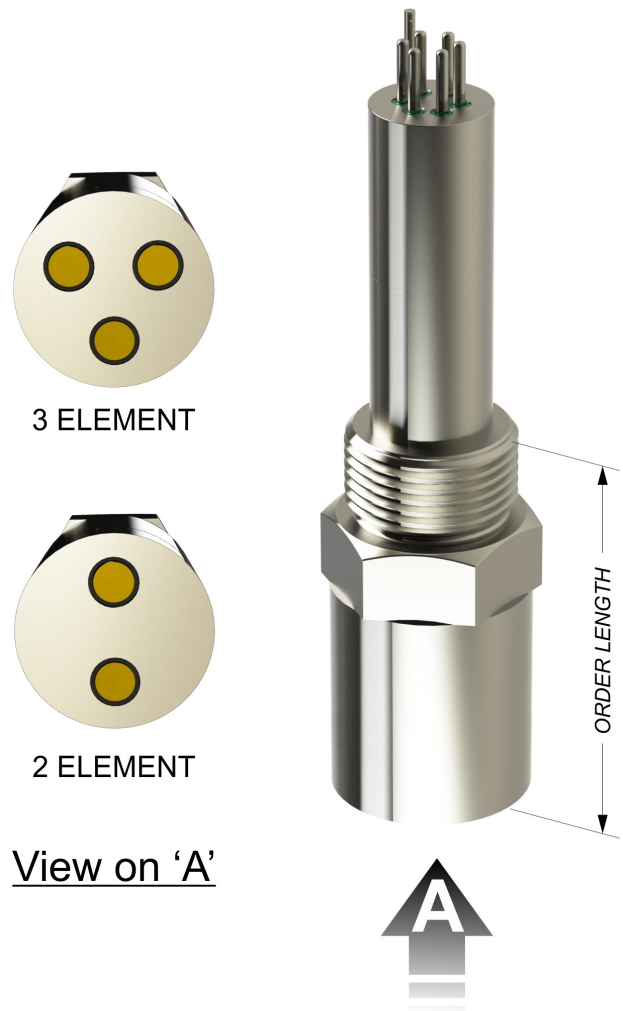
Maximum Operating Pressure	3,600 / 6,000 psi (24.8 / 41.4 MPa)
Maximum Operating Temperature	500°F (260°C)

PROBE SEALING Connector pins hermetically sealed using high integrity glass ceramic seals.

ENCAPSULATION Two part loaded resin with excellent thermal, electrical and mechanical properties.

CONNECTION Interfaces with the Caproco LPR Analyzer and most other commercial LPR monitoring instrumentation, via a MIL standard 6 pin receptacle.

Caproco also offers 5 element probes for multifunction applications, such as combined LPR and electrochemical noise monitoring. Contact Caproco for more information.



PROBE LENGTH IS MEASURED FROM SEALING FACE OF PROBE BODY THREADS TO ELEMENT END

Flush 2 or 3 Element Retrievable LPR Probes			
LENGTH		PART NUMBER	PART NUMBER
(Inches)	(MM)	2 - Element	3 - Element
2.500	64	62600	62001
2.625	67	62601	62002
2.750	70	62602	62003
2.875	73	62603	62004
3.000	76	62604	62005
3.125	79	62605	62006
3.250	83	62606	62007
3.375	86	62607	62008
3.500	89	62608	62009
3.625	92	62609	62010
3.750	95	62610	62011
3.875	98	62611	62012
4.000	102	62612	62013
4.125	105	62613	62014
4.250	108	62614	62015
4.375	111	62615	62016
4.500	114	62616	62017
4.625	117	62617	62018
4.750	121	62618	62019
4.875	124	62619	62020
5.000	127	62620	62021
5.125	130	62621	62022
5.250	133	62622	62023
5.375	137	62623	62024
5.500	140	62624	62025
5.625	143	62625	62026
5.750	146	62626	62027
5.875	149	62627	62028
6.000	152	62628	62029
6.125	156	62629	62150
6.250	159	62630	62030
6.375	162	62631	62151
6.500	165	62632	62031
6.625	168	62633	62152
6.750	171	62634	62032
6.875	175	62635	62153
7.000	178	62636	62033
7.125	181	62637	62154
7.250	184	62638	62034
7.375	187	62639	62155
7.500	191	62640	62035