Retractable Linear Polarization Resistance (LPR) Probe Flush Mounting (2 or 3 Element)

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 with 2 or 3 element configurations.

Specifications

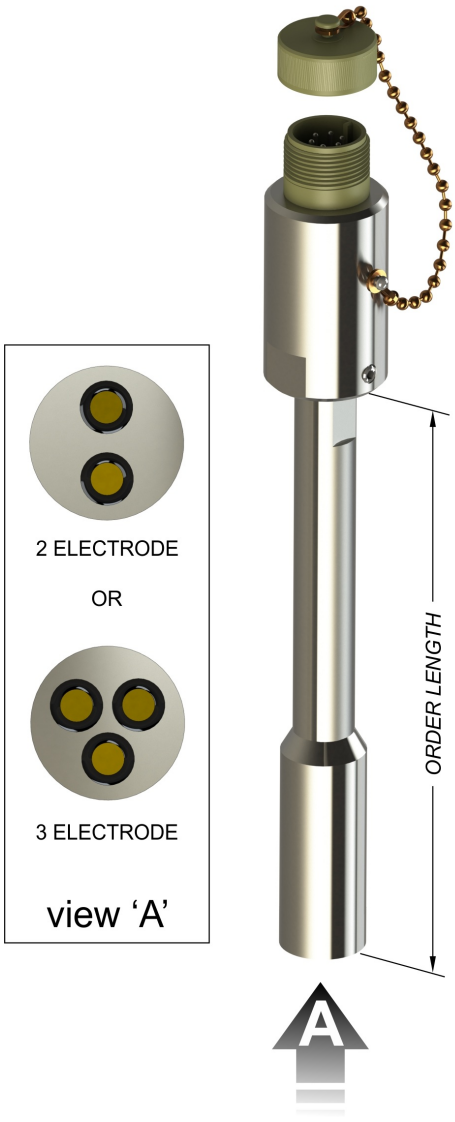
Caproco LPR probes are manufactured from 316 stainless steel with standard AISI 1018 mild steel elements. Probe bodies and elements are available in alternative materials upon request. Standard probes are designed for mounting through a Caproco low pressure stuffing box / access fitting assembly.

Maximum Operating Pressure	1,500 psi (10.3 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.



PROBE LENGTH IS MEASURED FROM INSIDE FACE OF CONNECTOR HEAD TO ELEMENT END

FLUSH 2 OR 3 ELEMENT RETRACTABLE LPR PROBES

LENGTH (INCHES)	LENGTH (MM)	2 ELEMENT PART NUMBER	3 ELEMENT PART NUMBER
16	406	62169	62182
18	457	62170	62183
20	508	62171	62147
22	559	62172	62184
24	610	62173	62580
26	660	62174	62138
28	711	62175	62137
30	762	62176	62185
32	823	62177	62186
34	864	62178	62187
36	914	62179	62143
38	965	62180	62188
40	1016	62181	62189

OTHER LENGTHS AVAILABLE UPON REQUEST