

## 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.

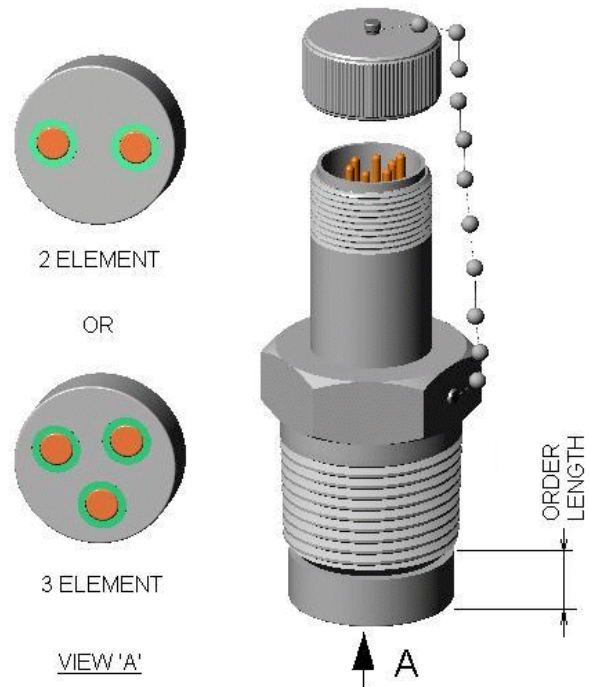
The fixed style probe must be used in systems which can be depressurized for insertion and removal.

## 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. Caproco fixed probes are designed for mounting through a standard thread-o-let fitting, available in 3/4", 1", 1 1/2" and 2" NPT configurations.

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.



**PROBE LENGTH IS MEASURED FROM THE START OF THE NPT THREAD TO ELEMENT END**

**CONTACT CAPROCO FOR SIZING AND PART NUMBER INFORMATION**