

GENERAL

Caproco offers a range of high quality, high integrity linear polarization probes which utilize a projecting element configuration to measure the rate of 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. LPR probe elements are replaceable once they have corroded past their useful life.

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 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.

Element Length	1.5" x 0.25" (38mm x 6mm)
Maximum Operating Pressure	3,600 / 6,000 psi (24.8 / 41.4 MPa)
Maximum Operating Temperature	500°F (260°C)

PROBE SEALING Element and 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

PROJECTING 2 OR 3 ELEMENT FIXED LPR PROBES			
LENGTH		PART NUMBERS	
(INCHES)	(MM)	³ / ₄ " NPT 2 ELECTRODES	1" NPT 3 ELECTRODES
3.00	76	63403	63453
3.25	83	63404	63454
3.50	89	63405	63455
3.75	95	63406	63456
4.00	102	63407	63457
4.25	108	63408	63458
4.50	114	63409	63459
4.75	121	63410	63460
5.00	127	63411	63461
5.25	133	63412	63462
5.50	140	63413	63463
5.75	146	63414	63464
6.00	152	63415	63465
6.25	159	63416	63466
6.50	165	63417	63467
6.75	171	63418	63468
7.00	178	63419	63469
7.25	184	63420	63470
7.50	191	63421	63471
7.75	197	63422	63472
8.00	203	63423	63473
8.25	210	63424	63474
8.50	216	63425	63475
8.75	222	63426	63476
9.00	229	63427	63477
9.25	235	63428	63478
9.50	241	63429	63479
9.75	248	63430	63480
10.00	254	63431	63481
10.25	260	63432	63482
10.50	267	63433	63483
10.75	273	63434	63484
11.00	279	63435	63485
11.25	286	63436	63486
11.50	292	63437	63487
11.75	298	63438	63488
12.00	305	63439	63489

STANDARD CARBON STEEL REPLACEMENT ELEMENTS:
 (SET OF 2) PART NUMBER 63895 (SET OF 3) PART NUMBER 63026

PROBES AVAILABLE IN ³/₄", 1", 1½" & 2" NPT SIZING, AND IN 2 OR 3 ELEMENT CONFIGURATIONS