Retrievable Electrical Resistance (ER) Probe Flush Mounting

General

Caproco offers a range of high quality, high integrity electrical resistance 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. Resistance readings from the sensing element are relative to a non-corroding reference element sealed within the probe body.

Application

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. Two sizes of elements are available to suit requirements regarding sensitivity and desired probe life.

Specifications

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

Element Thickness	F10 0.010" (0.25 mm) F20 0.020" (0.50 mm)
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 ER Analyzer and most other commercial ER monitoring instrumentation, via a MIL standard 6 pin receptacle.

View on Arrow '**A**'

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

FLUSH MOUNTING RETRIEVABLE ER PROBES			
LENGTH (Inches)	(mm)	PART NUMBER - F10	PART NUMBER - F20
1.125	29	92200	92300
1.250	32	92201	92301
1.375	35	92202	92302
1.500	38	92203	92303
1.625	41	92204	92304
1.750	44	92205	92305
1.875	48	92206	92306
2.000	51	92207	92307
2.125	54	92208	92308
2.250	57	92209	92309
2.375	60	92210	92310
2.500	64	92211	92311
2.625	67	92212	92312
2.750	70	92213	92313
2.875	73	92214	92314
3.000	76	92215	92315
3.125	79	92216	92316
3.250	83	92217	92317
3.375	86	92218	92318
3.500	89	92219	92319
3.625	92	92220	92320
3.750	95	92221	92321
3.875	98	92222	92322
4.000	102	92223	92323