

### 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

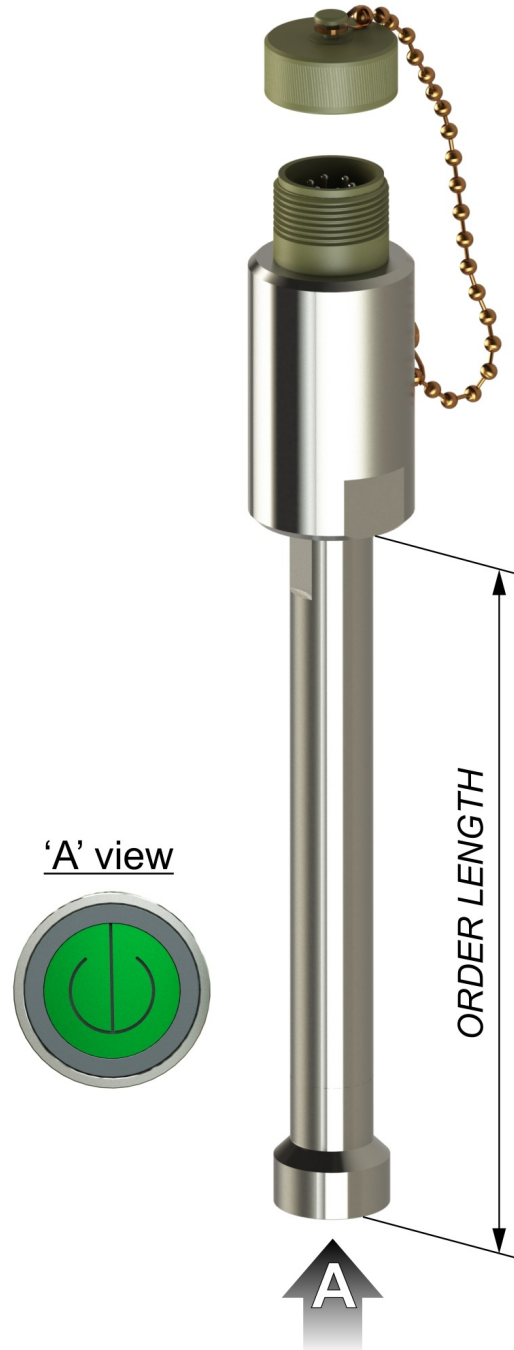
Caproco ER probes are manufactured from 316 stainless steel with an AISI 1018 mild steel element. Probe bodies and elements are available in alternative materials upon request. Standard probes are designed for mounting through a Caproco low pressure stuffing box / access fitting assembly.

Element Thickness	F10 0.010" (0.25 mm)
	F20 0.020" (0.50 mm)
Maximum Operating Pressure	1,500 psi (10.3 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.



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

<b>FLUSH MOUNTING RETRACTABLE ER PROBES</b>			
<b>LENGTH</b>		<b>PART NUMBER - F10</b>	<b>PART NUMBER - F20</b>
<b>(Inches)</b>	<b>(MM)</b>		
18.0	457	92025	92100
19.0	483	92026	92101
20.0	508	92027	92102
21.0	533	92028	92103
22.0	559	92029	92104
23.0	584	92030	92105
24.0	610	92031	92106
25.0	635	92032	92107
26.0	660	92033	92108
27.0	686	92034	92109
28.0	711	92035	92110
29.0	737	92036	92111
30.0	762	92037	92112
31.0	787	92038	92113
32.0	823	92039	92114
33.0	838	92040	92115
34.0	864	92041	92116
35.0	889	92042	92117
36.0	914	92043	92118