

## GENERAL

Caproco offers a range of high quality, high integrity electrical resistance probes which utilize a tube loop element configuration to measure the rate of corrosion.

The element is comprised of a hollow single length of tube, which overcomes any requirement of welding the element. Resistance readings from the sensing element are relative to a non-corroding reference element sealed within the probe body.

## APPLICATION

The tube loop design is the most sensitive of the ER probes, and is able to quickly detect changes, even with a low rate of corrosion. Two sizes of elements are available to suit requirements regarding sensitivity and desired probe life.

## SPECIFICATIONS

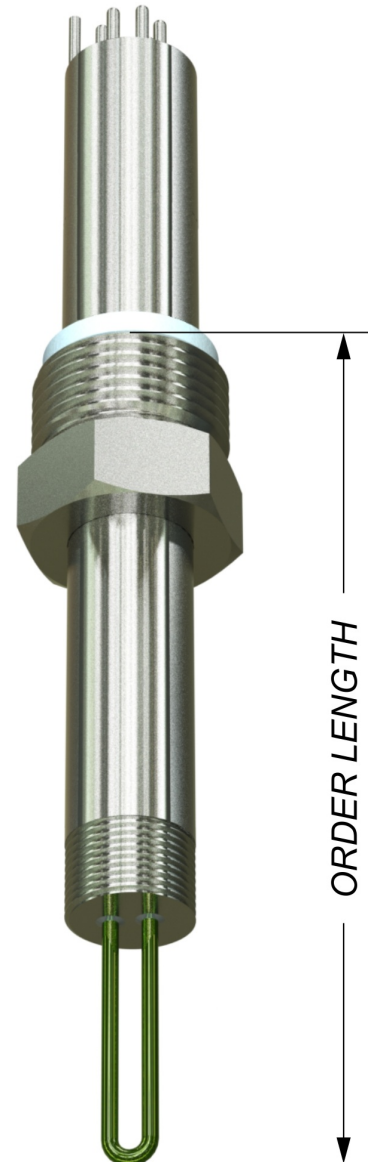
Caproco ER probes are manufactured from 316 stainless steel with an AISI 1018 mild steel element. Probe bodies and elements are available in alternative materials upon request. Standard probes are designed for mounting through a Caproco Hollow Plug assembly.

|                               |  |
|-------------------------------|--|
| Element Length                | 1.25" (32 mm)                          |
| Element Thickness             | TL4 0.040" (1 mm)<br>TL8 0.080" (2 mm) |
| Maximum Operating Pressure    | 3,600 / 6,000 psi<br>(24.8 / 41.4 Mpa) |
| Maximum Operating Temperature | 500°F<br>(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 SEALING FACE OF PROBE BODY THREADS TO ELEMENT END**

| TUBE LOOP RETRIEVABLE ER PROBES                  |      |             |  |      |             |
|--|------|-------------|--|------|-------------|
| ELEMENT TYPE - TL 4<br>ELEMENT MATERIAL - 1018CS |      |             | ELEMENT TYPE - TL 8<br>ELEMENT MATERIAL - 1018CS |      |             |
| LENGTH   |      | PART NUMBER | LENGTH   |      | PART NUMBER |
| (INCHES)   | (MM) |             | (INCHES)   | (MM) |             |
| 2.75"  | 70   | 93200       | 2.75"  | 70   | 93300       |
| 3.00"  | 76   | 93201       | 3.00"  | 76   | 93301       |
| 3.25"  | 83   | 93202       | 3.25"  | 83   | 93302       |
| 3.50"  | 89   | 93203       | 3.50"  | 89   | 93303       |
| 3.75"  | 95   | 93204       | 3.75"  | 95   | 93304       |
| 4.00"  | 102  | 93205       | 4.00"  | 102  | 93305       |
| 4.25"  | 108  | 93206       | 4.25"  | 108  | 93306       |
| 4.50"  | 114  | 93207       | 4.50"  | 114  | 93307       |
| 4.75"  | 121  | 93208       | 4.75"  | 121  | 93308       |
| 5.00"  | 127  | 93209       | 5.00"  | 127  | 93309       |
| 5.25"  | 133  | 93210       | 5.25"  | 133  | 93310       |
| 5.50"  | 140  | 93211       | 5.50"  | 140  | 93311       |
| 5.75"  | 146  | 93212       | 5.75"  | 146  | 93312       |
| 6.00"  | 152  | 93213       | 6.00"  | 152  | 93313       |
| 6.25"  | 159  | 93214       | 6.25"  | 159  | 93314       |
| 6.50"  | 165  | 93215       | 6.50"  | 165  | 93315       |
| 6.75"  | 171  | 93216       | 6.75"  | 171  | 93316       |
| 7.00"  | 178  | 93217       | 7.00"  | 178  | 93317       |
| 7.25"  | 184  | 93218       | 7.25"  | 184  | 93318       |
| 7.50"  | 191  | 93219       | 7.50"  | 191  | 93319       |
| 7.75"  | 197  | 93220       | 7.75"  | 197  | 93320       |
| 8.00"  | 203  | 93221       | 8.00"  | 203  | 93321       |
| 8.25"  | 210  | 93222       | 8.25"  | 210  | 93322       |
| 8.50"  | 216  | 93223       | 8.50"  | 216  | 93323       |
| 8.75"  | 222  | 93224       | 8.75"  | 222  | 93324       |
| 9.00"  | 229  | 93225       | 9.00"  | 229  | 93325       |
| 9.25"  | 235  | 93226       | 9.25"  | 235  | 93326       |
| 9.50"  | 241  | 93227       | 9.50"  | 241  | 93327       |
| 9.75"  | 248  | 93228       | 9.75"  | 248  | 93328       |
| 10.00"   | 254  | 93229       | 10.00"   | 254  | 93329       |
| 10.25"   | 260  | 93230       | 10.25"   | 260  | 93330       |
| 10.50"   | 267  | 93231       | 10.50"   | 267  | 93331       |
| 10.75"   | 273  | 93232       | 10.75"   | 273  | 93332       |
| 11.00"   | 279  | 93233       | 11.00"   | 279  | 93333       |
| 11.25"   | 286  | 93234       | 11.25"   | 286  | 93334       |
| 11.50"   | 292  | 93235       | 11.50"   | 292  | 93335       |
| 11.75"   | 298  | 93236       | 11.75"   | 298  | 93336       |
| 12.00"   | 305  | 93237       | 12.00"   | 305  | 93337       |

OPTIONAL FLOW DEFLECTOR P/N 99009