

## GENERAL

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

The element is comprised of a thin solid single length of wire, 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 wire loop design is highly sensitive and performs well in locations subject to electrical or system noise. Element thickness offers longer probe life compared to other types. Two sizes of elements are available to suit requirements regarding sensitivity and desired probe life.

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

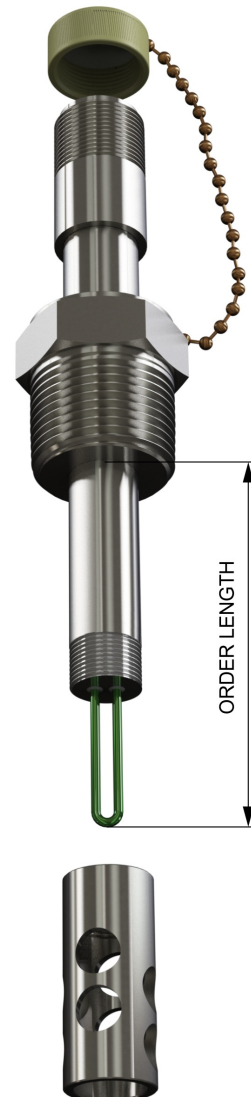
## SPECIFICATIONS

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.

|                               |  |
|-------------------------------|--|
| Element Length                | 1.25" (32 mm)                          |
| Element Thickness             | W40 0.040" (1 mm)<br>W80 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)                       |

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.

|               |   |
|---------------|---|
| 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 THE START OF THE NPT THREAD TO THE END OF THE SENSING ELEMENT

| <b>WIRE LOOP FIXED ER PROBES</b> |             |                     |               |                |
|----------------------------------|-------------|---------------------|---------------|----------------|
| <b>ELEMENT TYPE - W40</b>        |             |                     |               |                |
| <b>LENGTH</b>                    |             | <b>PART NUMBERS</b> |               |                |
| <b>(INCHES)</b>                  | <b>(MM)</b> | <b>¾" NPT</b>       | <b>1" NPT</b> | <b>1½" NPT</b> |
| 4.00                             | 102         | 91412               | 91500         | 91550          |
| 4.25                             | 108         | 91413               | 91501         | 91551          |
| 4.50                             | 114         | 91414               | 91502         | 91552          |
| 4.75                             | 121         | 91415               | 91503         | 91553          |
| 5.00                             | 127         | 91416               | 91504         | 91554          |
| 5.25                             | 133         | 91417               | 91505         | 91555          |
| 5.50                             | 140         | 91418               | 91506         | 91556          |
| 5.75                             | 146         | 91419               | 91507         | 91557          |
| 6.00                             | 152         | 91420               | 91508         | 91558          |
| 6.25                             | 159         | 91421               | 91509         | 91559          |
| 6.50                             | 165         | 91422               | 91510         | 91560          |
| 6.75                             | 171         | 91423               | 91511         | 91561          |
| 7.00                             | 178         | 91424               | 91512         | 91562          |
| 7.25                             | 184         | 91425               | 91513         | 91563          |
| 7.50                             | 191         | 91426               | 91514         | 91564          |
| 7.75                             | 197         | 91427               | 91515         | 91565          |
| 8.00                             | 203         | 91428               | 91516         | 91566          |
| 8.25                             | 210         | 91429               | 91517         | 91567          |
| 8.50                             | 216         | 91430               | 91518         | 91568          |
| 8.75                             | 222         | 91431               | 91519         | 91569          |
| 9.00                             | 229         | 91432               | 91520         | 91570          |
| 9.25                             | 235         | 91433               | 91521         | 91571          |
| 9.50                             | 241         | 91434               | 91522         | 91572          |
| 9.75                             | 248         | 91435               | 91523         | 91573          |
| 10.00                            | 254         | 91436               | 91524         | 91574          |
| 10.25                            | 260         | 91437               | 91525         | 91575          |
| 10.50                            | 267         | 91438               | 91526         | 91576          |
| 10.75                            | 273         | 91439               | 91527         | 91577          |
| 11.00                            | 279         | 91440               | 91528         | 91578          |
| 11.25                            | 286         | 91441               | 91529         | 91579          |
| 11.50                            | 292         | 91442               | 91530         | 91580          |
| 11.75                            | 298         | 91443               | 91531         | 91581          |
| 12.00                            | 305         | 91443               | 91443         | 91443          |

**OPTIONAL FLOW DEFLECTOR P/N 99009**

**W80 PROBES ARE AVAILABLE IN THE SAME SIZING AS W40**

**CONTACT CAPROCO FOR SIZING AND PART NUMBERS FOR 2" PROBES**