

## CORROSION

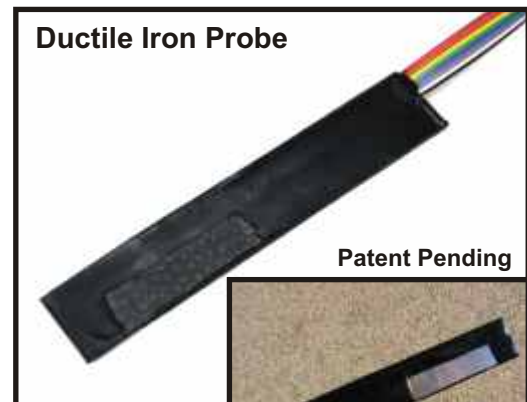
## SENSORS: DUCTILE IRON CARBON STEEL

### Accurately Measure Corrosion Rates Underground on Carbon Steel and Ductile Iron

The Model DIP-1 is an Electrical Resistance (ER) corrosion sensor designed specifically for ductile iron installations. The probe is made of ductile iron with the annealing oxide layer intact for accurate MPY loss rates. Measure cumulative corrosion and calculate the in-situ corrosion rates. The sensor has a very low profile (0.1875") and will lay below a polyethylene encasement without interference.

#### Features:

- Ductile Iron element with annealing oxide intact, or Carbon Steel element
- Works with or without CP applied
- Low-profile facilitates under polyethylene encasement or under insulation installation
- Compatible with standard ER instruments
- 25-foot (7.6m) cable with standard 6-pin connector
- Breakout lead for connection to CP



Ductile Iron Probe

Patent Pending



Carbon Steel Probe

Distributed by

Use the Model T-3 CP Test Station  
as the  
access  
point for the  
Model DIP-1



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**CORROSION SENSOR**



# TINKER & RASOR

CORROSION MITIGATION INSTRUMENTATION

## PRODUCT DATA SHEET LOW PROFILE CORROSION SENSORS

### DIP-1 (Patent Pending) Features:

- Ductile Iron element with annealing oxide intact
- Works with or without CP applied
- Low-profile of element facilitates installation under polyethylene encasement
- Compatible with all standard ER instruments
- 25' (7.6m) cable with standard 6-pin connector
- Additional pigtail lead for connection to CP

### CSP-1 (Patent Pending) Features:

- Carbon steel element
- Works with or without CP applied
- Low-profile of element facilitates installation under polyethylene encasement
- Compatible with all standard ER instruments
- 25' (7.6m) cable with standard 6-pin connector
- Additional pigtail lead for connection to CP

### Construction:

Element made from ductile iron pipe (DIP-1) or Carbon Steel (CSP-1) for accurate corrosion loss readings. Built for harsh underground environments. Measurement span (life): Nominal 25 mils (0.63 mm) Measurement element area: 1 in<sup>2</sup> (6.5 cm<sup>2</sup>) Mil-spec 6-pin connector Cable length: 10' ribbon (3m) + 15' round (4.5m) Breakout wire for connection to CP Flat ribbon cable for low profile along pipe.

### Applications:

- Use on any buried ductile iron or carbon steel installation with or without CP.
- Benchmark soil corrosivity
- Native soil corrosion
- Install and measure under Polyethylene Encasement (PE: AWWA C105 Appendix A)

### Recommendations:

Compatible with standard all ER probe instrumentation, i.e. Rohrback Cosasco Systems CHECKMATE™, Ck3 or Ck4, Metal Samples MS0500 and MS1500E, or others.

### Dimensions:

6.00" L x 1.00" W x 0.185" H  
(154mm L x 26.8mm W x 3.8mm H)

DELIVERY: **Immediately from STOCK**  
F.O.B. San Bernardino, CA USA  
SERVICE: **24-hour Turn-Around**  
TERMS: Net30 Days, on approval of credit  
WARRANTY: **90 Days**, parts and labor



**Small Size  
Low Profile  
Long Life**

Cable connections sealed from the environment, with only the measurement element exposed. Military-style 6-pin connector is weather proof, as well. Single lead breakout from connector for connection to CP. Flat ribbon cable from probe continues low profile to end of PE wrap (10'), then round cable (15') leads to test station.



**DIP-1**

**MODEL DIP-1 DUCTILE IRON PROBE**

**AVAILABLE FROM STOCK**