# ULTRACORR®
## By COSASCO®

# Ultracorr®

## High Resolution Pipe Thickness Monitoring System

- **Ideal For ICDA* Compliance**

- **Highest Resolution Transducer Available**

- **Portable Instrument**

- **Download Stored Readings Directly to PC For Analysis**

- **Battery Operated For Maximum Versatility**

- **Smart Sensor Enables Electronic Tagging**

- **Resolution of 0.1 mil (0.0001 in) Provides True Corrosion Monitoring**

- **Temperature Measurement With Integrated Temperature Sensor**

- **Ideal For Direct Wall Loss Monitoring On a Pipe Elbow or Buried Pipeline**

The Ultracorr® system combines very high sensitivity monitoring sensors with the non-consumable nature of inspecton devices. It represents a breakthrough for internal corrosion monitoring at locations that are difficult to access. Once installed, Ultracorr® provides years of continuous service without the need for replacement.

Internal corrosion is one of the leading causes of pipeline failure – and one of the most difficult to detect. Pipeline accidents have caused catastrophic injury and destruction, resulting in the US Department of Transporation imposing integrity management requirements on pipeline operators. To aid operator compliance, Cosasco has developed an efficient, reliable means of monitoring internal corrosion before it causes problems.

Ultracorr® will help solve the problem of monitoring in locations where sensor access is difficult, and will particulary

suit buried pipeline operators faced with the problem of ICDA* activities. After the initial dig to expose and ultrasonically examine HRHC (high risk, high consequence) locations, Ultracorr® sensors can be installed on the line, and the excavation backfilled. They can subsequently be accessed for measurement via a test post, located at ground level, above

the line. Readings can be taken every 3-6 months to verify the corrosion behavior thereby minimizing or eliminating the need for costly future excavations or they can be taken on short intervals using the datalogging option (average five-minute / read).
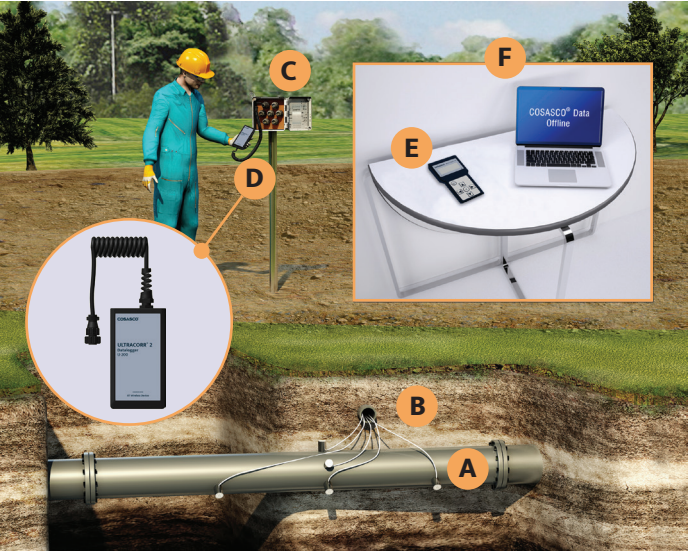


## Typical Ultracorr 2 System

**A**  UST Ultracorr sensor

**B**  Signal cabling 100'

**C**  Reading point (junction box optional for multiple sensors)

**D**  Ultracorr 2 Datalogger

**E**  TU-500 for set up and data collection

**F**  PC running CDO software

| Ultracorr 1 | Ultracorr 2 | Transducer (Sensor) |
|---|---|---|
| **Thickness Measurement (Range)**<br>0.1 - 2.0" (2.5-50mm) up to 125' Cable | **Thickness Measurement (Range)**<br>0.1 - 2.0" (2.5-50mm) up to 125' cable | **Temperature Measurement**<br>Range: -10˚C - 85˚C |
| **Instrument Operating Temperature**<br>32˚F - 122˚F (0˚C - 50˚C) | **Resolution (Sensitivity)**<br>0.1mil (0.0025mm) | **Specifications**<br>1" Diameter x 1" High |
| **Data Storage**<br>Memory Storage: Nonvolatile<br>Up to 50 sensors can store up to 256 readings | **Instrument Operating Temperature**<br>-40˚F - 158˚F (-40˚C - 70˚C) | **Cable Length**<br>Range: up to 125' Cable |
| **Interface**<br>USB (cables included), RD232 (optional) | **Data Storage**<br>Datalogger: 1 Sensor with 2000 Readings<br>Time and Date Stamped, Memory:<br>Non-Volatile | |
| **Battery Requirements**<br>6 AA Alkaline | **Communication Interface**<br>Wireless BT Data Transfer | |
| **Specifications**<br>Size: Approx. 4" x 8" x 2" (10cm x 5cm)<br>Weight: 1.5 lbs. (0.068kg) | **Battery Requirements**<br>2 x 3.6V AA Lithium Cells (RCS P/N 095820)<br>Battery Capacity: 2,000 readings | |
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