

ULTRACORR[®]

High Resolution On-line Pipe Thickness Monitor



Fixed Sensor

Transducers permanently bonded to Pipeline before installation

Features:

- **Ideal for ICDA* Compliance**
- **Highest Resolution Transducer Available**
- **Portable Instrument**
- **Automatic Corrosion Data Collection**
- **Automatic Download to PC**
- **Battery Operated for Maximum Versatility**
- **Smart Sensor Enables Electronic Tagging**
- **Resolution of 0.1 mil (0.0001 inches) provides true corrosion monitoring**

ULTRACORR[®] utilizes high sensitivity ultrasonic technology to provide **nonintrusive** monitoring of corrosion and erosion. The instrument can be used to log multiple transducers from a common connection point, to provide periodic time and date stamped measurements of wall thickness, or for more critical applications. It can automatically collect and store continuous measurements from a single transducer.

ULTRACORR[®] is ideally suited to form the backbone of an ICDA asset integrity system for pipeline operators. Sensors are permanently attached to the exposed surface in areas such as low lying spots, drips on other locations where corrosion should be monitored. After backfilling, the sensors are read from the surface by way of attached cables. The high resolution of ULTRACORR[®] enables pipeline operators to detect changes in corrosion rates and readjust accordingly scheduled reassessment

intervals to suit. Repeat excavations are unnecessary, and the guesswork about reinspection intervals is removed.

Typical measurement time per transducer is a few seconds. The user can program the ULTRACORR[®] Instrument to collect data from as many as 50 transducers, or alternatively, it can be programmed to collect up to 1,024 data points from one transducer at programmed intervals. Operation is made very simple by a series of user prompts shown on the LCD display. A rugged package along with extended battery life provides maximum versatility for the corrosion technician.

The software included with the instrument facilitates the transfer of data to a PC for analysis and permanent storage. ULTRACORR[®] is also compatible with the CORRDATA[®] Plus (for Windows[™] XP Pro/Vista Business/Vista Ultimate) software used with the industry favorite CORRDATA[®] Remote Data Collection System.

*ICDA – Internal Corrosion Direct Assessment

(Windows XP is a trademark of the Microsoft Corporation)

Specifications:

Instrument:

- **Thickness Measurement**
Range: 0.1 - 2.0" (2.5 - 50mm)
up to 100' Cable
0.2 - 2.0" (5-50mm)
up to 200' Cable
0.4 - 1.25" (10 - 32mm)
up to 300' Cable
- **Instrument Operating Temperature**
32°F - 122°F (0°C - 50°C)
- **Data Storage**
Memory Storage: Nonvolatile
- **Interface**
USB (cables included), RS232 (optional)
- **Battery Requirements**
6 AA Alkaline
- **Size** Approx. 4" x 8" x 2"
(10cm x 20cm x 5 cm)
- **Weight**
1.5 lbs (0.068 kg)

Transducer (sensor):

- **Temperature Measurement**
Transducer Range: -10°C to +85°C
- **Data Storage**
Number of sensors: Up to 50 sensors can store up to 256 readings
1,024 readings for Remote Data Collector (RDC) operation
- **Size**
1" Diameter x 1" High

Ordering Information:

ULTRACORR® Instrument

| Model | Description |
|------------|--|
| ULTRACORR® | Ultrasonic Pipe Thickness Monitor/Remote Data Collector with CORRDATA® Plus Software for download, analysis, and storage |
| ULTRACORR® | ← Example |

Ultrasonic Transducer

| Model | Description | | | | | | |
|------------------|--|------|--------------------|---|------------------------|---|--|
| UST | Ultrasonic Transducer * | | | | | | |
| | <table border="1"> <thead> <tr> <th>Code</th> <th>Cable Type Option</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Polyurethane Jacket</td> </tr> <tr> <td>1</td> <td>Polyurethane Jacket with Stainless Steel Armor</td> </tr> </tbody> </table> | Code | Cable Type Option | 0 | Polyurethane Jacket | 1 | Polyurethane Jacket with Stainless Steel Armor |
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| UST - 1 - 0 - 50 | ← Example | | | | | | |

*Accessories: Epoxy/Couplant Kit (includes cleaner) P/N-744006 (One kit required per transducer for installation)



Rohrback Cosasco Systems, Inc.
11841 East Smith Avenue
Santa Fe Springs, CA 90670, USA
Tel: (1) 562-949-0123 Fax: (1) 562-949-3065
US Toll Free: 800-635-6898
E-Mail: sales@cosasco.com
Web Site: <http://www.cosasco.com>

