ULTRACORR®
High Resolution Pipe Thickness Monitor

Features

- **Ideal for ICDA* Compliance**
- **Highest Resolution Transducer Available**
- **Portable Instrument**
- **Corrosion Data Collection from up to 50 Transducers**
- **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 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 read multiple transducers from a common connection point, to provide periodic time and date stamped measurements of wall thickness, or for more critical applications.

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 re-inspection intervals is removed.
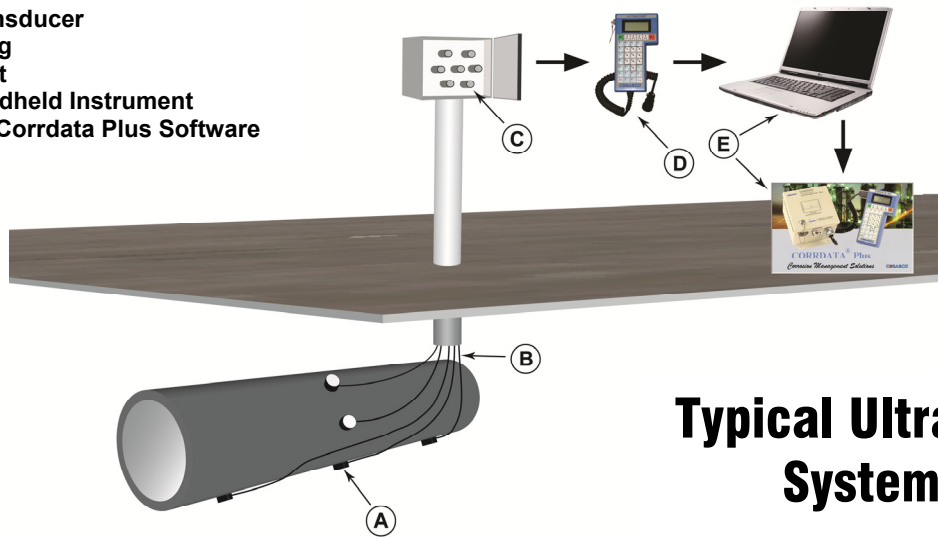
*ICDA – Internal Corrosion Direct Assessment

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 storing up to 256 readings per transducer. 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

(Windows XP is a trademark of the Microsoft Corporation)

COSASCO®

A. **Ultracorr Transducer**
B. **Signal Cabling**
C. **Reading Point**
D. **Ultracorr Handheld Instrument**
E. **PC Running Corrdata Plus Software**

Typical Ultracorr System

Ultracorr Repair Using STOPAQ®

STOPAQ is a proven way of repairing your pipe and preventing corrosion after the Ultracorr transducer installation. STOPAQ is considered a visco-elastic fluid, which means it feels like a solid or rubber, but still has the characteristics of a fluid. These fluid properties allow the material to adhere to the pipe remarkably while providing resistance against cathodic disbanding and giving excellent corrosion protection.

The STOPAQ materials used in the transducer installation repair are as follows:

- STOPAQ Wrapping band CZ H Paste – To mold around the Transducer.

- STOPAQ CS H Wrapping band – To cover the CZ H Paste.

- STOPAQ Covering Tape – For mechanical protection of the CZ H Paste and Tape

Instrument:

- **Thickness Measurement**
  Range: 0.1 - 2.0" (2.5 – 50mm) up to 125' Cable

- **Instrument Operating Temperature**
  32ºF - 122ºF (0ºC - 50ºC)

- **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: -10ºC to +85ºC

- **Data Storage**
  Number of sensors: Up to 50 sensors can store
  up to 256 readings

- **Size**

  1" Diameter x 1" High

Ordering Information

ULTRACORR® Instrument (ITEM – D)

Model	Description
ULTRACORR®	Ultrasonic Pipe Thickness Monitor/Remote Data Reader with Corrdata® Plus Software for download, analysis, and storage

ULTRACORR®	←	Example

Ultrasonic Transducer (ITEM – A)

Model	Description				
UST	Ultrasonic Transducer				
		Code	Cable Type Option		
		0	Polyurethane Jacket		
		1	Polyurethane Jacket with Stainless Steel Armor		
			Code	Termination Option	
			0	Weatherproof Connector	
				Code	Cable Length
				L	Cable Length in Feet

UST	—	1	—	0	—	50	Example

Part Number	Description	Part Number	Description
744006	Epoxy/Couplant Kit (includes cleaner) (One kit required per transducer for installation)	744018-10	Coating repair kit for 10 transducers **(STOPAQ)**
744014 **ITEM C**	Enclosure assembly for Ultracorr for 5 transducer Connector in Nema 4X box (does not include pole)	744018-20	Coating repair kit for 20 transducers **(STOPAQ)**
744014-10 **ITEM C**	Enclosure assembly for Ultracorr for 10 transducer Connector in Nema 4X box (does not include pole)	744018-30	Coating repair kit for 30 transducers **(STOPAQ)**
744014-15 **ITEM C**	Enclosure assembly for Ultracorr for 15 transducer Connector in Nema 4X box (does not include pole)	744018-40	Coating repair kit for 40 transducers **(STOPAQ)**
		744018-50	Coating repair kit for 50 transducers **(STOPAQ)**

Example (Typical Ordering information for 10 Ultracorr® Transducers)		
1	10	P/N UST-0-0-100, Standard Ultrasonic Transducer with RTD for Temperature Compensation with 100 foot cable, Circular connector with weatherproof housing polyurethane cable
2	1	P/N 744014-10, Enclosure assembly for Ultracorr for 10 transducer connector in Nema 4X box
3	1	P/N 744018-10, Coating repair kit (STOPAQ) for 10 transducers
4	1	P/N ULTRACORR, Ultrasonic Corrosion Data Collector with Corrdata® Plus Software for downloading graphing and analysis.
5	10	P/N 744006, Coupling kit with cleaner for 10 transducers

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bsi. ISO 9001 Quality Management
FM 10694