

ULTRACORR®

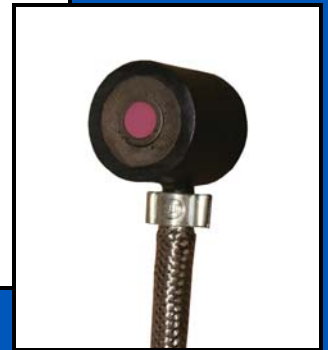
Ultrasonic Thickness Measurement Sensors and Instrumentation

The ULTRACORR® system combines very high sensitivity monitoring sensors with the non-consumable nature of inspection 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 Transportation imposing integrity management requirements on pipeline operators. To aid operator compliance, RCS 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 particularly 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 then be taken every 3-6 months to verify the corrosion behavior thereby minimizing or eliminating the need for costly future excavations.

*ICDA – Internal Corrosion Direct Assessment



ULTRACORR® ultrasonic corrosion instrument with ultrasonic transducer



Sensors permanently bonded using epoxy to pipeline before installation

SENSORS ARE
PERMANENTLY MOUNTED
TO THE PIPELINE –
NO MAINTENANCE OR
REPLACEMENTS REQUIRED

A NON-INTRUSIVE, HIGH SENSITIVITY, PORTABLE INSTRUMENT THAT DETECTS EVEN THE LOWEST CORROSION RATES

The ULTRACORR® System is a combination of permanently mounted transducers and portable reading instrument. The system offers the following features:

- **Non-intrusive Sensor**

The sensor is simply attached to the exterior of the pipe/vessel surface, using a proprietary transfer adhesive, assisted by the magnetic shell of the sensor. While requiring a clean metal surface for attachment, no special surface preparation is needed.

- **High Resolution**

The resolution of the technique is more than an order of magnitude greater than conventional ultrasonic sensors. Estimation of corrosion rates are made in a matter of weeks, rather than years. The ULTRACORR® sensor is a true monitoring device, for permanent installation, providing frequent updates on corrosion rates in the user's system.

- **ICDA Compliant**

ULTRACORR® is ideally suited to form the backbone of an ICDA asset integrity system for pipeline operators. The high resolution of ULTRACORR® enables pipeline operators to detect changes in corrosion rates and readjust scheduled reassessment intervals to suit.

- **User Friendly Measurement**

Sensors are electronically tagged, to avoid confusion, when periodic measurements are made, and stored in the hand held, portable reading instrument.

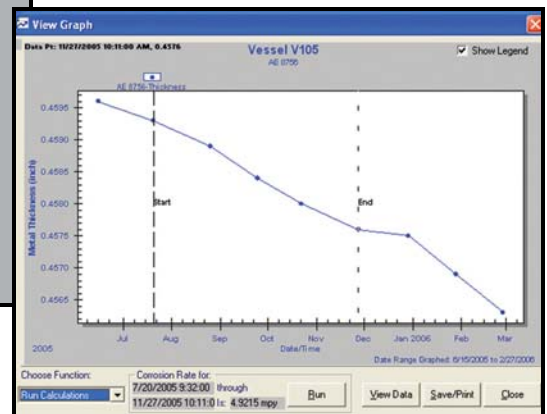
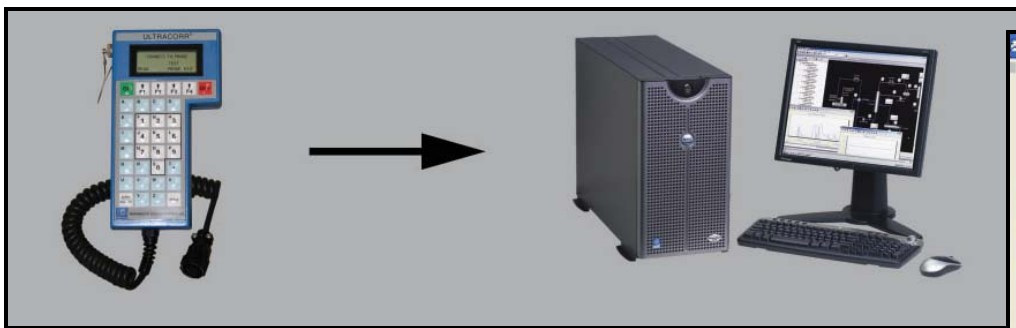
- **Non-Consumable**

Unlike electrical resistance probes, the ULTRACORR® sensor does not require replacement, and will provide many years of uninterrupted service, without the need for routine maintenance. It is ideally suited for inaccessible locations, such as buried pipelines.



Simple Analysis Software

Readings stored on the portable data logging unit can be uploaded to a PC, where CORRDATA® PLUS software is used to organize, store, and graphically display data. Simple plots of thickness, versus time, are augmented with a cursor driven corrosion rate calculator permitting detailed event analysis.



**Stored readings can be quickly and easily
uploaded to PC for data analysis**

Please contact us for more information about our systems and services:



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