

Microcor® Wireless Corrosion Transmitter

The Microcor Wireless Transmitter (MWT) offers high speed, wireless, corrosion monitoring in all process environments. With the same exceptional proven accuracy and quality that Microcor Online Corrosion Monitoring Systems are known for worldwide, the wireless link now adds simplicity, flexibility, and exceptional economy of installation to new or existing installations.

Each MWT works as a node in a self-organizing network (mesh) to ensure consistent delivery of data. Secure and infinitely configurable, the self-

organizing network ensures an adaptive, flexible approach to wireless data transfer that defies the “canyons of metal” which define most plants.

Unlike many approaches to in-plant wireless systems which require direct line-of-sight between the instrument and the communications gateway, the RCS approach ensures network integrity by allowing MWT’s to communicate with each other. Because every device serves as a network connector there can be no single point of failure. In the event a temporary obstruction blocks a direct connection, the network automatically reroutes the signal to an adjacent device, ensuring network reliability and data integrity.

The MWT uses high resolution metal loss measurement providing 18 bit resolution, and is rated for operation in hazardous locations. Like its rugged predecessor Microcor which has performed well in both arctic and desert conditions, the MWT has an allowable operating range of from -40°C to 70°C.

Key Benefits of Microcor® Wireless Corrosion Transmitter:

- High Resolution Wireless Corrosion Monitoring
- Dramatically Lower Installation Costs
- Independent operation or seamless integration with Emerson’s Smart Wireless Range of Solutions
- Operation in Hazardous Locations
- Ideal solution for hard to access areas



Microcor® Wireless Transmitter shown on-line, with probe adapter and Quicksand™ probe mounted in a Cosasco® Access Fitting

High Speed Wireless Corrosion Monitoring for all Process Media

Microcor® Wireless Corrosion Transmitter

The MWT is based on RCS's Microcor technology and will provide corrosion rates in any process media at speeds approaching real time. Microcor online systems are in use throughout the world and have proven that accuracy and reliability can co-exist. Correlating real time corrosion rates with other process parameters enables facility operators to realize unprecedented process control related to variables such as chemical inhibitor feed. Chemical inhibitor costs can be reduced without compromising plant safety, thereby ensuring a speedy recovery of the investment in the corrosion monitoring system. Continued use provides alerts to system upsets, lengthens the time between plant

shutdowns, extends overall asset life, and gives peace of mind with respect to potential environmental mishaps caused by corrosion.

**BASED ON MICROCOR®
TECHNOLOGY WITH
SPEEDS APPROACHING
REAL TIME**



Microcor® Wireless Network, Gateway and Interface



Please contact us for more information about products and systems:



RCS Corporate Headquarters
11841 E. Smith Avenue
Santa Fe Springs, CA 90670
Tel: +1-562-949-0123
Fax: +1-562-949-3065

RCS Sales Locations
Houston, Texas, USA
Tel: +1-281-219-8200
Aberdeen, UK
Tel: +44 (0) 1224 825500

Alaska, USA
Tel: +1-907-398-9558
Singapore
Tel: +65 64056657

Caracas, Venezuela
Tel: +58 212 7712301

E-mail: sales@cosasco.com • Website: www.cosasco.com

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