

# COSASCO® Wireless System

The COSASCO® Wireless System 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.

The COSASCO® Wireless System is comprised of MICROCOR® Wireless Transmitters (MWT), Quicksand Wireless Transmitters (QWT), and Wireless Extenders (WE). Just like the wired version of the RCS's online

corrosion monitoring system, the wireless system measures metal loss, corrosion/erosion rate, and pitting tendency using high speed electrical resistance (ER), Linear Polarization Resistance (LPR), and Galvanic functions.

Each COSASCO® Wireless device 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 COSASCO® Wireless devices 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.

COSASCO® Wireless Transmitters use high resolution metal loss measurement providing 18 bit resolution, and are rated for operation in hazardous locations. Like its rugged predecessor MICROCOR®

which has performed well in both arctic and desert conditions, COSASCO® Wireless devices have an allowable operating range of from -40°C to 70°C.

## Key Benefits of COSASCO® Wireless System:

- 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

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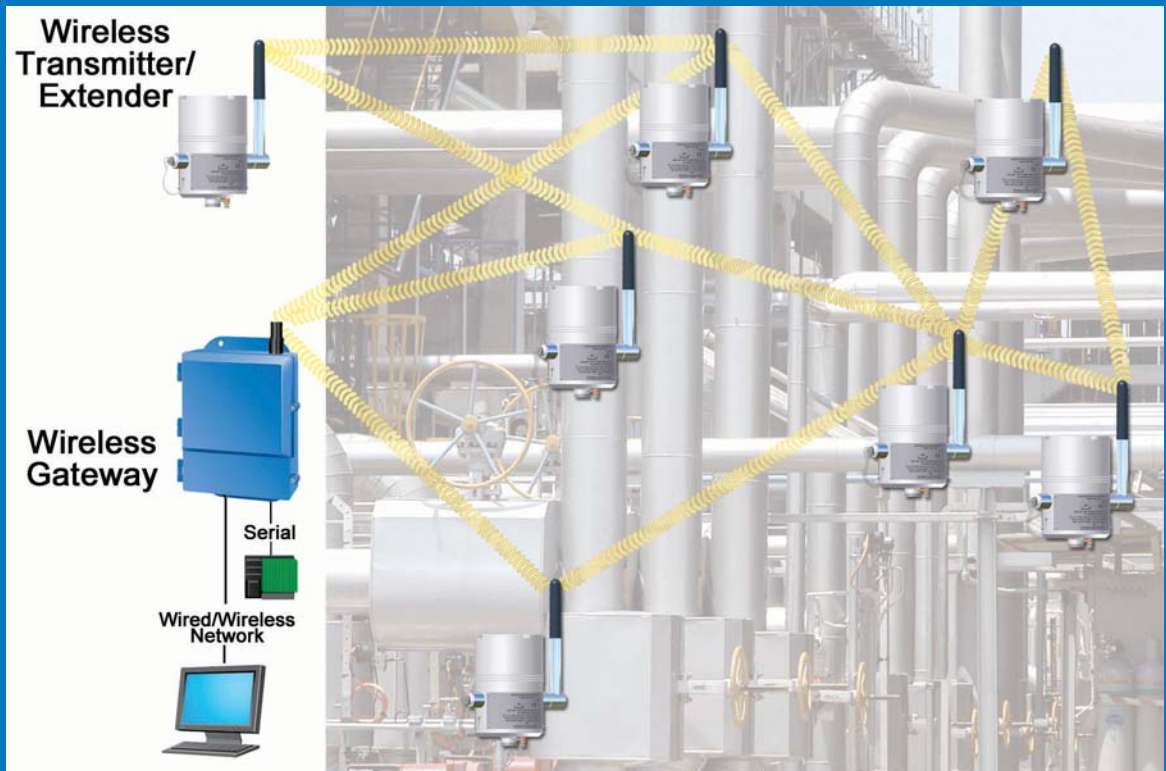
The COSASCO® Wireless System is based on RCS's MICROCOR® technology and will provide corrosion rates in any process media at speeds approaching real time. Microcor online systems are in use throughout the world and have proven that accuracy and reliability can co-exist. Correlating real time corrosion 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**



## COSASCO® Wireless Network, Gateway and Interface



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