

Integrated Corrosion Monitoring Systems

ICMS3™

Integrated Corrosion Management System
for medium to large systems

IIU

Intelligent Interface Unit
for small to medium systems



Convenient, online corrosion monitoring

Integrate corrosion monitoring into your existing system

We know corrosion is just one of many process parameters you worry about. That's why we developed our integrated corrosion monitoring systems. Now, you can add corrosion to your list of variables— such as temperature, pressure, pH, oxygen level, and chemical inhibitor concentration — that you monitor with your existing system.

Our integrated corrosion monitoring solutions, the Intelligent Interface Unit (IIU) for small to medium-size systems, and the Integrated Corrosion Management System ICMS3 for medium to large systems, communicate through a direct wired and ethernet online connection to integrate into your existing DCS and SCADA systems.

A system designed for your application

Our corrosion sensor and transmitter systems are known to be extremely sensitive and accurate, and are available for such diverse industries as oil and gas, petrochemical, water treatment, chemical, pulp and paper, pharmaceutical, and utilities.

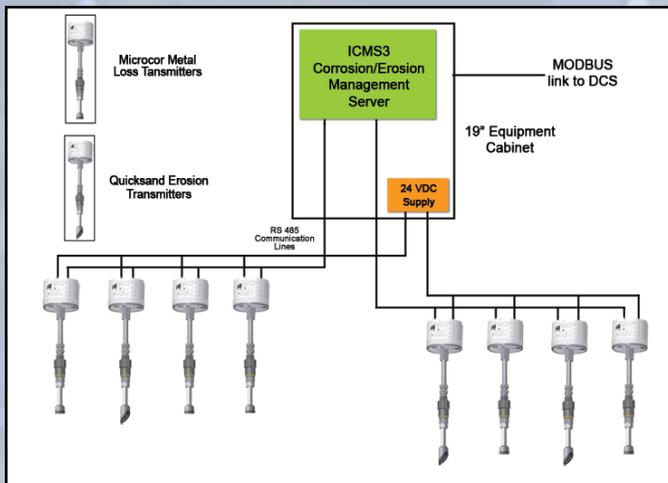
Our systems adapt to yours. From five corrosion transmitters across the road to 500 around the world, we can design a system that helps you monitor and manage corrosion in your systems.

Measure, improve, and save!

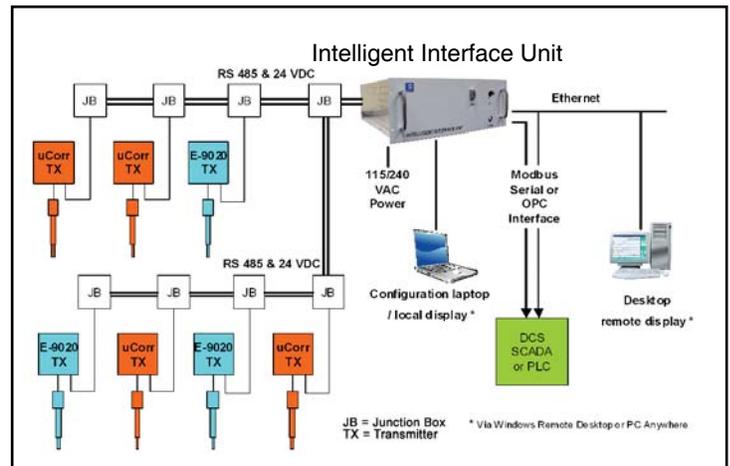
With comprehensive corrosion monitoring and process integration, you can:

- Reduce risk from leaks and system failure
- Optimize chemical inhibitor use
- Reduce inspection and maintenance costs
- Reduce unscheduled downtime
- Reduce time spent on chemical screening trials
- Lengthen equipment life

And get a significant return on your investment! See the back page for a payback example.



ICMS3 System shown with Microcor® & Quicksand™ Transmitters



Integrated corrosion monitoring systems can be installed to meet almost any application requirement. Shown here is the Intelligent Interface Unit hard-wired to several transmitter types. Transmitters can also be connected over an ethernet network.

Corrosion management solutions for any application

Intelligent Interface Unit (IIU)

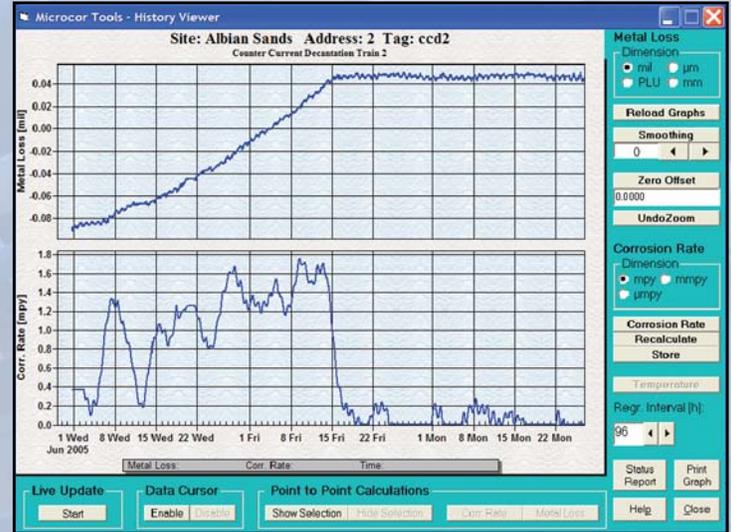
The Intelligent Interface Unit (IIU) provides low-cost entry to corrosion management. Perfect for smaller scale systems.



Intelligent Interface Unit

The Intelligent Interface Unit (IIU) computes metal corrosion and erosion rates from measurements transmitted from our Microcor® and Quicksand® sensors, and also provides instantaneous corrosion rates and pitting tendencies in aqueous media via our digital Corrater® transmitter. Eliminating the need for expensive custom software, the IIU cost-effectively illustrates metal loss and corrosion/erosion rates through the installed Microcor Tools software. This permits operation as either a blind interface to a SCADA or DCS system, or as a stand-alone corrosion data storage and analysis system.

The IIU is most commonly supplied in 19" rack mounted form, but is also available in a wall mounted NEMA-4 or NEMA-4X enclosure. Configuration is achieved through a local computer connection or over a LAN/WAN connection through PC Anywhere® or Windows® Remote Desktop® software.



The Intelligent Interface Unit (IIU) provides a graphical interface displaying metal loss and corrosion or erosion rates.

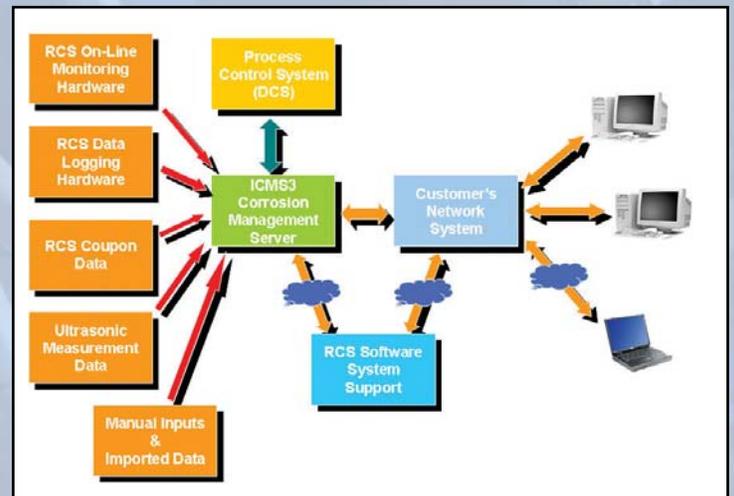
Integrated Corrosion Management System ICMS3

The Integrated Corrosion Management System ICMS3 is the most comprehensive and powerful online corrosion monitoring system available. It is ideally suited for medium to large scale systems, or for small systems with the need for future growth. The ICMS3 allows integration of all Rohrbach Cosasco System corrosion, erosion, and cathodic protection products, with related process data, to provide correlation and generate key performance indicators (KPIs) and summary reports for proper system management.



Integrated Corrosion Management System server

The ICMS3 corrosion management server is the hub of the corrosion or erosion monitoring system, integrating several forms of corrosion monitoring and process data into one complete online system, shared over a variety of communication links. Corrosion and erosion monitoring can be managed as process parameters with constant data streaming into your preferred system.



The Integrated Corrosion Management System ICMS3 retrieves corrosion and erosion data from a variety of transmitters and can share that data with multiple systems, allowing remote, online access to critical process control parameters.

Benefits of our corrosion monitoring systems

Significant return on investment

In appropriate applications, our corrosion monitoring systems deliver a rapid and substantial payback. A recent customer had installed ICMS3 systems at three of their main gas processing plants. Their initial investment was recouped within the first year purely on the basis of needed process improvements that became apparent after installation of the ICMS3 systems. Those savings were derived from reducing direct operating costs, however subsequent long term study of the ICMS3 output revealed corrosion trends that, if unchecked, would lead to premature aging and replacement of key plant components. A company-wide assessment was undertaken, and a mitigation plan based on the installation of ICMS3 systems at all eleven of the customer's plants was adopted. They estimate their savings will be \$50 million per year when the findings are implemented at all eleven plants.

Total corrosion data management

Our corrosion management systems deliver unmatched levels of capability. Probes are monitored continuously online, providing metal loss and corrosion rate graphs at the press of a button. Process information transferred from the SCADA system assists correlation of corrosion upsets with process parameters for identification of problems. Corrosion coupon data can also be input and stored on the system, along with any other corrosion related data, such as laboratory analysis data, chemical injection rates, computed water content, and ultrasonic probe readings. It is also a simple matter to generate Key Performance Indicators (KPIs) such as cost of inhibition, cost of corrosion per production volume, and many others. The systems can also allow for management of corrosion inhibitor supplies, can be set to produce reports automatically, and even to provide corrosion data to risk management software. Our software is designed by corrosion engineers for corrosion engineers, and provides features that are not available in other software applications.

Highly cost-effective asset management

Asset management ensures the timely maintenance of field equipment, delivering maximum performance and service life at minimal cost. Saving time and avoiding expensive equipment failures are key benefits of asset management programs. An effective online integrated corrosion monitoring system allows corrective actions to be taken quickly, before costly or catastrophic events occur, leaving plant operators with peace of mind.

RCS system support and service

RCS provides remote access and support for its systems, typically over the internet through the client's secure VPN network. Security is a major concern for IT departments of all corporations. Through a VPN connection to our secure maintenance server, we can offer a maintenance service that provides the client with rapid support and assistance with data interpretation or system maintenance questions. As staffing levels get lower and less experienced staff are available, the comfort and security of system support is essential.

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