

On-line Systems Intelligent Interface Unit

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Intelligent Interface Unit (IIU)



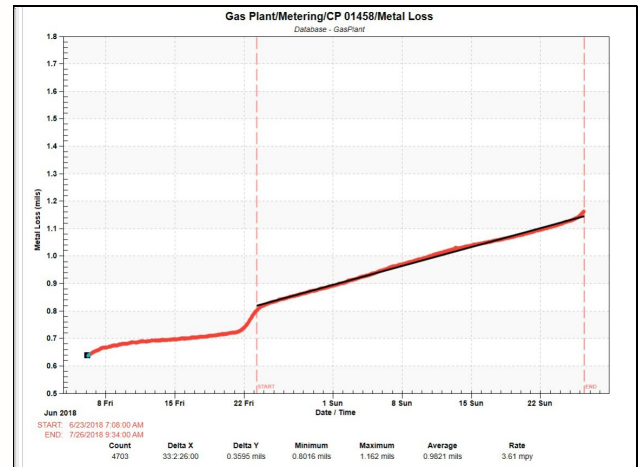
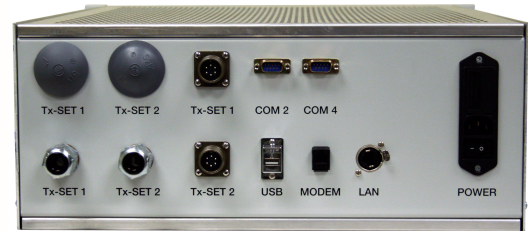
The **Intelligent Interface Unit** is designed for use on small to medium size Microcor and E-9020 LPR on-line systems for easy integration into existing SCADA and DCS systems. The IIU may also be used on newer existing Legacy systems with 4-20MA ER and LPR Transmitters.

The IIU allows flexible input configurations for up to 100 transmitters in any combination of Microcor and LPR E-9020. These include direct-wired configurations, or connection via TCP/IP converters over LAN/WAN connections. See some typical system layouts on the following page.

The primary purpose of the IIU is to provide the computation of corrosion rate from the metal loss made by the Microcor transmitters, since these calculations are too complex for most SCADA and DCS systems to achieve without custom programming. Output from the IIU to the SCADA or DCS system is available in engineering units over Modbus serial port or via OPC over the Network. For Microcor transmitters the available outputs are metal loss, standard computed corrosion rate, diurnal filtered corrosion rate in metric or imperial units, and transmitter status. For LPR E-9020 the available outputs are instantaneous corrosion rate, pitting tendency (or imbalance) in metric or imperial units, and transmitter status.

The IIU is most commonly supplied in 19" rack mounted form as shown above, but is also available in a wall mount NEMA 4 and NEMA 4X enclosures.

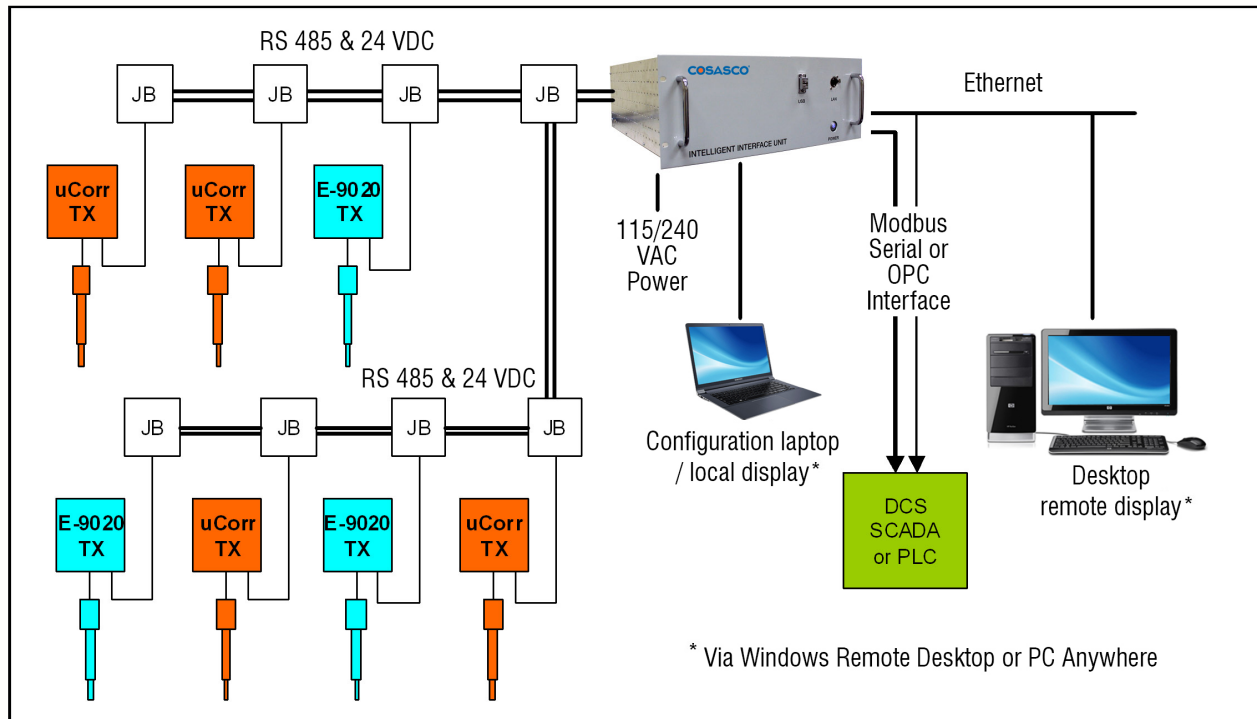
Configuration of the IIU is achieved through local connection of a laptop (not supplied) or over the LAN/WAN connection through Windows Remote Desktop. The IIU provides data storage and archiving, with direct graphical displays of the data through the installed Cosasco Data Online software. This permits operation as either a blind interface to a SCADA or DCS system, or as a stand-alone corrosion data storage and analysis system.



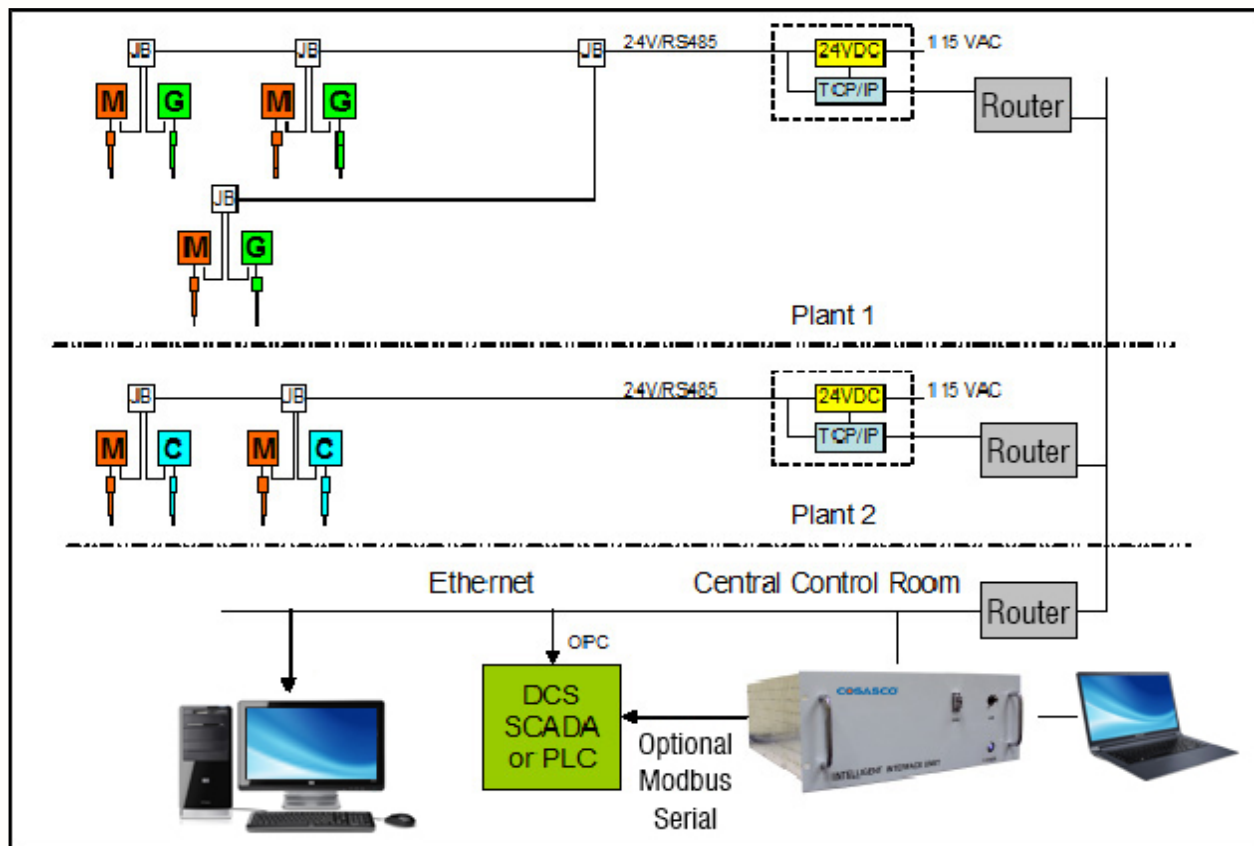
IIU Corrosion Data Graphical Interface

Although the IIU is fully user programmable, the IIU is normally supplied as part of a complete corrosion management system fully factory tested and configured for your application. On-site commissioning and training are given by our experienced field engineers on a day rate basis to meet your requirements.

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Typical System with direct hard-wired Transmitter Inputs



Typical System with Transmitters connected over Network with TCP/IP Converters

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Specifications

Input:	Up to 100 Transmitters	USB Ports:	Two – One rear panel, one front panel
Transmitter Type:	Microcor, LPR E-9020, Galvanic E-9020	Modem:	One for dial-up remote access
Transmitter Power Supply:	Integral in IIU	Power Supply:	100 to 240 VAC / 2.5A
Input Ports:	Two direct hard-wired RS 485 multi-drop cables with serial or parallel connection up to 4000ft (1200m) max longest cable run. Up to 256 RS485 ports with separate TCP/IP converters and power supplies (sold separately) over LAN / WAN	Temperature Rating:	0°C to 60°C
Output Ports:	One RS232, One isolated RS485 two wire	Operating System:	Windows® XP Embedded
LAN Ports:	Two 10/100 – One rear panel, one front panel	Modbus:	ASCII and RTU, 32 bit float, swappable bits, settable slave ID, address range 40,000 upwards
		Dimensions:	
		19" Rack:	19"W x 7"H x 22" D + 4" for cable clearance
		Wall Mount:	24"W x 24"H x 8.5"D
		Other:	Internal connection for video/mouse/keyboard

Ordering Information

Part Number	Description
748302-2*	Intelligent Interface Unit for 115 VAC Power Input in a 500mm x 500mm x 210 mm on NEMA 4, Wall-Mount, RAL 7032 Painted Carbon Steel Enclosure with cable gland plate bottom side. Major internal components consist of: -Embedded PC Assembly installed with MICROCOR® Tools Software and Output Interfaces for SCADA/DCS Systems. -One 24 VDC (1.3 Amp) Power Supply and Converter, suitable for 115 VAC and 230 VAC. -One 3.0 Amp Master Circuit Breaker -Two RS-485 to RS-232 Converters
748302-5*	Intelligent Interface Unit for 120 VAC Power Input in a 600mm x 600mm x 210 mm NEMA 4X / IP 66, Wall-Mount, 304 Stainless Steel Enclosure with NO cable gland plate on bottom side. Major internal components consist of: -Embedded PC Assembly installed with MICROCOR® Tools Software and Output Interfaces for SCADA/DCS Systems. -One 24 VDC (1.3 Amp) Power Supply and Converter, suitable for 115 VAC and 230 VAC. -One 3.0 Amp Master Circuit Breaker -Two RS-485 to RS-232 Converters
748302-10**	Intelligent Interface Unit for 120 VAC Power Input in a 19 Inch Standard Rack-Mount configuration. Major internal components consist of: -Embedded PC Assembly installed with MICROCOR® Tools Software and Output Interfaces for SCADA/DCS Systems. -One 24 VDC (1.3 Amp) Power Supply and Converter, suitable for 115 VAC and 230 VAC. -Two RS-485 to RS-232 Converters

NOTES:

* This unit is able to be configured for either 115/120 VAC or 230 VAC. As a standard it is set up for 115 VAC.

If 230 VAC is required, this requirement must be stated when being ordered for proper configuration.

** This unit comes with a 115/120 VAC Wall Power Cable. If a unit with a 230 VAC Wall Power Cable is required, use "TBA" for the part number with same assembly price and lead time.

Accessories:

P/N 097032-60-1 19" Rack Mount Slide-out Monitor with Keyboard and Trackpad unit.

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