The Intelligent Interface Unit (IIU) 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 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.

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 is given by our experienced field engineers on a day rate basis to meet your requirements.
Intelligent Interface Unit (IIU)

Typical System with direct hard-wired Transmitter Inputs

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

Input: Up to 100 Transmitters
Transmitter Type: Microcor, LPR E-9020, Galvanic E-9020
Transmitter Power Supply: Integral in IIU
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
Output Ports: One RS232, One isolated RS485 two wire
LAN Ports: Two 10/100 – One rear panel, one front panel
USB Ports: Two – One rear panel, one front panel
Modem: One for dial-up remote access
Power Supply: 100 to 240 VAC / 2.5A
Temperature Rating: 0ºC to 60ºC
Operating System: Windows® XP Embedded
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

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<tr>
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<td>19” Rack Mounting</td>
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<td>3</td>
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<td>Microcor Tools with Output Interfaces for SCADA/DCS Systems</td>
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<td>2</td>
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Example: P/N 097032-60-1

Accessories:
- Rack Mount, Slide out Monitor, Keyboard, Trackpad. IU High

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Rohrback Cosasco Systems Corrosion Monitoring Equipment is manufactured and sold under one or more of the following US Patents: 4138878, 4288328, 4338161, 4514681, 4537071, 4587479, 4605626, 4625557, 4755744, 4839580, 4841787, 5243297

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