

LINEAR POLARIZATION RESISTANCE (LPR) INSTRUMENT

Request A Quote

9030 Plus

Features

- **Corrosion Rate, Imbalance and Temperature Measurements**
- **Solution Resistance Compensation For Increased Operation Range**
- **One or Two Channels**
- **Data Logging with CORRDATA® Plus Software**
- **Isolated 4-20 mA Outputs**
- **Weatherproof Enclosure**
- **CE Compliant**

The 9030 Plus Linear Polarization Resistance Instrument is a corrosion rate system designed for cooling water, process water, and feed water systems. It is available with one or two channels of corrosion rate, imbalance, and temperature data for rapid response to process upset conditions. Two-channel operation allows for the monitoring of two alloys at a time, for example, mild steel and a copper-based alloy (found in many plant systems).

The 9030 Plus LPR Instrument's patented Solution Resistance Compensation uses Electrochemical Impedance Spectroscopy (EIS) to improve the accuracy and extend the range of Linear Polarization Resistance (LPR) corrosion monitoring, increasing the operating range up to 20 times more than competitive instruments. This greatly improves the applicability of the instrument for monitoring lower-conductivity waters and provides superior performance over standard three-electrode systems. In addition, the 9030 Plus LPR Instrument takes a sample of Electrochemical Current Noise (ECN) between the electrodes, and displays the ECN data as The 9030 Plus LPR Instrument is capable of imbalance. The imbalance current is related to pitting, corrosion activity and inhibitor film stability.



monitoring temperature when a LPR Temperature probe is used instead of a LPR probe.

The data logging function is activated through a RS-232 serial port directly from a laptop or desktop PC using CORRDATA® Plus Software. The software is Windows® 7 compatible. Features of the software include:

- Powerful graphical displays
- Easy analysis to calculate average corrosion rates
- Graph annotations
- Easy transfer of graphs to word processing programs

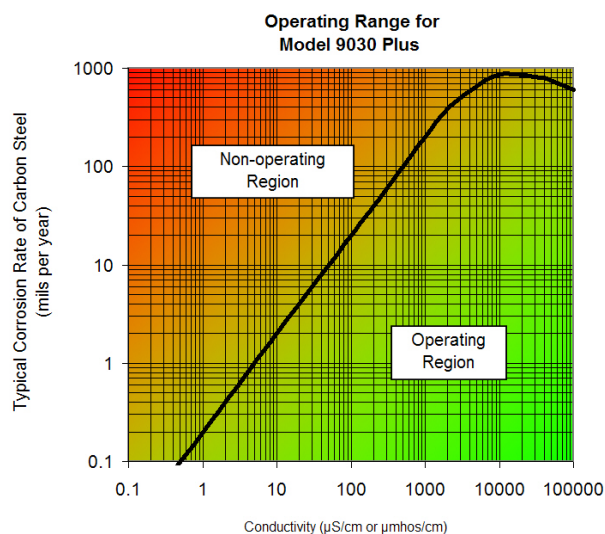
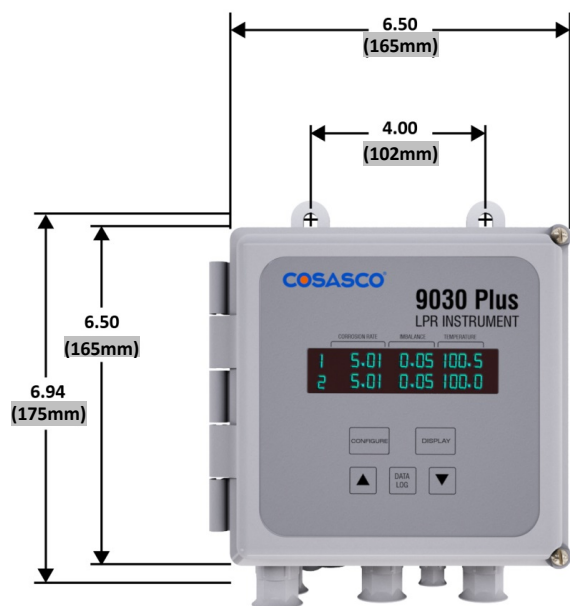
Six electrically isolated 4-20 mA outputs are available for connection to recorders, control systems, or computers. Safety barriers, available as optional equipment, permit the 9030 Plus instrument to be used with probes located in hazardous areas.

(Windows is a registered trademark of Microsoft)

COSASCO®

Specifications

Single Channel	One LPR or LPR Temperature probe providing corrosion rate, imbalance, and temperature from Dual Sensor LPR temperature probes. Data Logging using CORRDATA Plus Software directly from a PC or Laptop.
Two Channel	Two LPR or LPR Temperature probes (for 2 different alloys) providing corrosion rate, imbalance, temperature from one or two LPR Temperature probes (if used). Data Logging using CORRDATA Plus Software from a PC or Laptop.
Ranges	Corrosion Rate: 0.01 MPY to 1,000 MPY (0.25 μ mpy to 25,000 μ mpy) Imbalance: 0.01 to 1,000 pitting units Temperature: 0 $^{\circ}$ C to +260 $^{\circ}$ C
Data Storage	LPR: 1023, LPR Temperature: 511
Operating Range	See Graph
Probe Compatibility	Any two or three-electrode LPR probes
Corrosion Measurement Cycle	Manual program range: 3 to 30 minutes or automatic cycle
Alloy Multiplier Range	0.25 to 3.00
Analog Outputs	Six isolated outputs of 4-20 mA (600 ohm maximum resistance). Isolation from probe and ground but not between each output. Three isolated outputs only if single channel.
Set Point Relay Contact Rating	1 Amp. @ 230 VAC, resistive load, SPDT
Power Requirements	115/230 VAC 50/60 Hz., 15 watts
Instrument Operating Temperature	32 $^{\circ}$ F - 122 $^{\circ}$ F (0 $^{\circ}$ C - 50 $^{\circ}$ C)
Enclosure	NEMA 4X Weatherproof - non-corrosive
Weight	6 lbs. (2.7 kg)
CE	Compliant: EMC Directive EMC89/336/EEC Low Voltage Directive LV 72/23/EEC



Ordering Information

Model	Description		
9030 Plus	Corrosion Rate/Imbalance/Temperature LPR Instrument		
	Code	Corrosion Rate Channels	
	1	One LPR Dual Sensor Temperature Channel	
	2	Two LPR Dual Sensor Temperature Channels	
		Code	Supply Voltage
		115	115 Vac, 50/60 Hz
		230	230 Vac, 50/60 Hz
<div> <div>9030 Plus</div> <div>—</div> <div>2</div> <div>—</div> <div>115</div> <div>← Typical Order Number</div> </div>			

Note: The 9030 Plus Instrument is provided with a standard 10-foot LPR probe cable with a Type B connector. If longer cables are required, please specify at the time of order.

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