

Model 9030 Plus CORRATER[®] Instrument

Features:

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



The 9030 Plus 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 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 Instrument takes a sample of Electrochemical Current Noise (ECN) between the electrodes, and displays the ECN data as imbalance. The imbalance current is related to pitting, corrosion activity and inhibitor film stability.

The 9030 Plus Instrument is capable of monitoring temperature when a CORROTEMP[®] CORRATER[®] probe is used instead of a CORRATER[®] 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[®] XP Pro/Vista Business/Vista Ultimate compatible. Features of the software include:

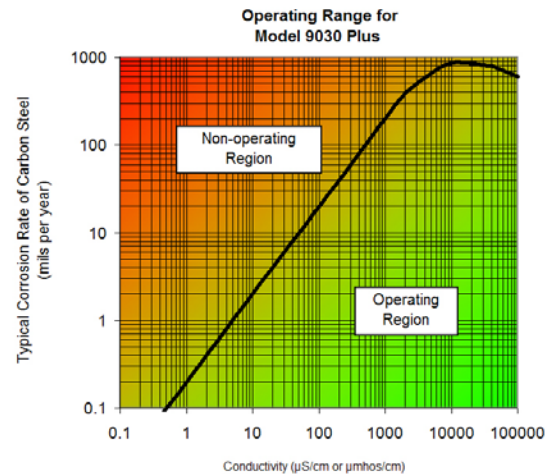
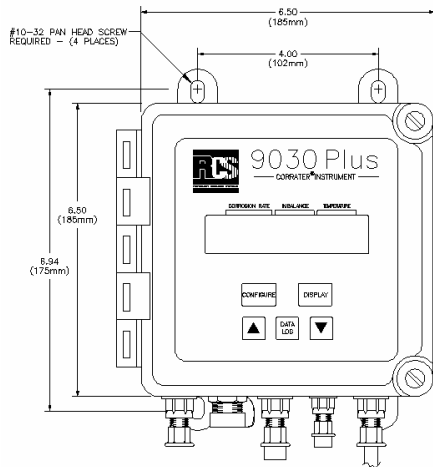
- Powerful graphical displays
- Easy analysis to calculate average corrosion rates
- Graph annotations
- Easy transfer of graphs to word processing programs

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)

Specifications:

- **Single Channel:**
One Corrat or Corrotemp Corrat probe providing corrosion rate, imbalance, temperature from Corrotemp Corrat probes. Data Logging using CORRDATA Plus Software directly from a PC or Laptop.
- **Two Channel:**
Two CORRATER or CORROTEMP CORRATER probes (for 2 different alloys) providing corrosion rate, imbalance, temperature from one or two CORROTEMPCORRATER probes (if used). Data Logging using CORRADATA 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 °C to +260 °C
- **Data Storage:** Corrat: 1023, Corrotemp: 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 °F - 122 °F (0 °C - 50 °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 Monitor						
	<table border="1"> <thead> <tr> <th>Code</th> <th>Corrosion Rate Channels</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>One Corrat/Corrotemp Corrat Channel</td> </tr> <tr> <td>2</td> <td>Two Corrat/Corrotemp Corrat Channels</td> </tr> </tbody> </table>	Code	Corrosion Rate Channels	1	One Corrat/Corrotemp Corrat Channel	2	Two Corrat/Corrotemp Corrat Channels
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9030 Plus	— 2 — 115 ← Typical Order Number						

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



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