

LINEAR POLARIZATION RESISTANCE (LPR) PORTABLE INSTRUMENT

AquaMate™



Features

- **Portable Corrosion Rate Monitoring**
- **Imbalance(Pitting) Measurement**
- **Solution Resistance Compensation**
- **Temperature Measurement**
- **CE Compliant**

The AquaMate™ Linear Polarization Resistance is your best answer to the problem of getting quick and easy corrosion rate measurements in water systems. Simply plug the hand-held instrument into a LPR probe and press the measure key. In a few minutes the readout will display the corrosion rate in mils per year (MPY), the imbalance reading, conductivity, and, if you're using a LPR Temperature probe, the water temperature.

The AquaMate™ LPR instrument's patented Solution Resistance Compensation extends the low conductivity operating range from cooling water to condensate, feedwater, and drinking water systems. Manual

conductivity correction is not required. The true corrosion rate will conveniently be displayed when the alloy multiplier is pre-programmed.

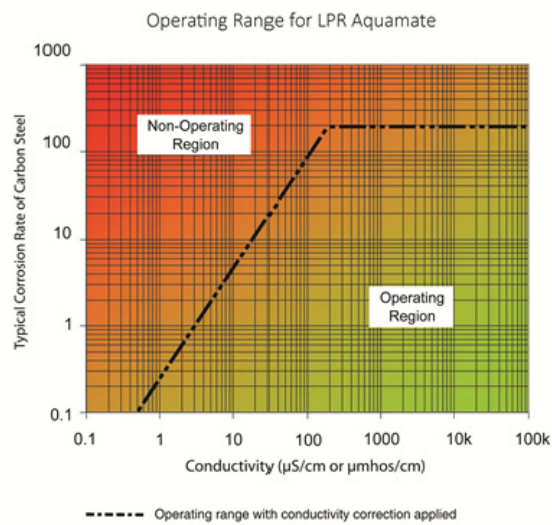
In addition, the AquaMate™ LPR instrument measures the imbalance current between the electrodes, which is related to pitting activity.

The instrument fits easily in a shirt pocket and is powered by a single 9 volt battery. Considering the features and size, this instrument sets a new standard for portable corrosion rate monitoring instrumentation.

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Specifications

Corrosion Rate Ranges	Autoranging: 0.01 to 200 mpy or 0 – 5.08 mmpy or 0 – 5080 μ mpy
Imbalance Ranges (Pitting Index)	0.01 to 100 pitting units or 0.025 to 250 μ A
Temperature Measurement	Range: 0 ° to +260 °C (0-500°F) Accuracy: ± 2 ° C (does not include probe error) Repeatability: ± 1 ° C Resolution: 0.1 ° C
Conductivity	Range: 50 to 2,000 μ mhos/cm (μ S/cm) Accuracy: $\pm 10\%$ (excluding probe error)
Operating Range	See Graph
Probe Compatibility	2 or 3 electrode LPR probe 2 electrode LPR Temperature probe (includes temperature)
Cycle Time	Manual mode: 2 to 21 minutes in 0.5 min. increments Automatic mode: 3 to 20 minutes
CE	Complies with all applicable EU Product Directions 89/336/EEC
Alloy Multiplier Range	0.25 - 3.00
Power Requirements	9 Volt Alkaline Battery
Instrument Operating Temperature	+32 ° to 122 °F (0 ° to 55 °C)
Instrument Storage Temperature	-4 ° to 131 °F (-20 ° to 55 °C)
Weight	14 ounces



Ordering Information

Aquamate™ Portable corrosion rate, imbalance, temperature, and conductivity monitor with test probe P/N Aquamate LPR Instrument.

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