Metal Samples
Corrosion Monitoring Systems

MS0500 ER Corrosion Meter

The MS0500 is a battery-powered, portable corrosion meter capable of measuring all types of electrical resistance (ER) corrosion probes. Combining light weight with ease of operation, the MS0500 is a simple and effective tool for gathering corrosion data from one or many probe locations.

Probe shown in photo not included with corrosion meter

Corrosion rate measurements are made using the electrical resistance method. Essentially, the instrument measures the resistance of the probe element which changes over time as metal loss occurs. The rate of change is directly proportional to the corrosion rate. This method finds a wide variety of applications since it can be used in conductive and nonconductive environments, such as petroleum, chemical, water, soil, or even atmosphere.

The MS0500 has a permanently attached cable assembly which mates directly to any standard ER probe. A switch is provided on the front panel of the instrument for selecting the probe type to be measured (wire loop, tube loop, cylindrical, etc.). Readings are taken using the dial and analog meter on the front panel.

The MS0500 also offers a built-in battery test function, and comes in a convenient carrying case.

Supplied by:

ANODE ENGINEERING

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Technical Specifications

Model
MS0500 - ER Corrosion Meter (Ordering # IN0500)

Physical Data

Instrument Weight:	2.38 lb. (1.08 Kg)
Total Weight w/ Carrying Case and Accessories:	3.6 lb. (1.63 Kg)
Instrument Dimensions:	3”H x 5”W x 6.75”D (7.62cm x 12.7cm x 17.15cm)
Carrying Case Dimensions:	6.0”H x 6.0”W x 8.75”D (15.24cm x 15.24cm x 22.23cm)
Operating Temperature:	32° to 122°F (0° to 50°C)
Storage Temperature:	32° to 122°F (0° to 50°C)

Performance Data

Measurement Type:	ER measurement using any standard ER probe type (Wire Loop, Tube Loop, Cylindrical, Flush, Strip, etc.) w/ check reading.
Range:	0-1000 digits representing 0-100% of probe life
Resolution:	1 digit

Electrical Data

Power Requirements:	Two 9V Batteries
Maximum Probe Cable Distance:	100 ft (30.48 m) *

Special Features
- Simple user interface
- Built-in battery check
- Portable

Accessory Items
Carrying Case, 6’ Probe Cable (attached), Meter Prover, Operation Manual

* May vary with element type.

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