



LC-4 CORROSION VOLTMETER



REVISION 1



LC-4 CORROSION VOLTMETER DATA

- Pick up a Model LC-4 and have these features in the palm of your hand:
- DC volts for IR drop, potential & rectifier readings
- AC volts for potential & rectifier readings
- Ohms for continuity & resistance testing
- Selectable input resistance display "freeze" for instant off & coordinated tests
- Optional plug-in shunt for current readings
- Heavy duty carrying case

General

Model LC-4 is the first hand-held voltmeter to include a number of special features which facilitate corrosion and cathodic protection testing on underground structures. It is designed for field testing under almost any environmental conditions. Sealed Mil Spec. switches, sealed windows, a gasketed case and a printed circuit board with baked-on moisture and fungus resistant coating on both sides make this possible.

The large (0.5") display characters are easy to read under both high and low lighting conditions and function over a wide temperature range with very little drain on the battery.

The LC-4 is recommended for potential surveys, side drain measurements, surface potential surveys, IR drop measurements, checking both the AC and DC circuits of rectifiers, checking for stray or hazardous AC potentials, and checking galvanic anodes. DC current measurements require the use of an optional plug-in shunt (0-20 Amp).

The selectable input resistance feature permits detection of high resistance in the external circuit and elimination of resulting errors in virtually all cases.

The push-to-hold-reading button freezes the display at any desired time, which makes the meter usable in many areas having varying stray currents. It is also useful when conducting instant-off and coordinated tests.



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SPECIFICATIONS

Logic	CMOS, crystal controlled timing.
Display	Liquid crystal, 3 1/2 digits, 0.5" high.
DC Volt Range	0 - 20 mV (.01 mV resolution) 0 - 200 mV (.1 mV resolution) 0 - 2 V (1 mV resolution) 0 - 200 V (.1 V resolution)
AC Volt Range	0 - 600 V (1 V resolution)
Resistance Range	0-200 Ohms (.1 Ohm resolution)
DC Current Range	Using optional .001 Ohm LC Shunt: 0-20 A (.01 A resolution)
Accuracy	DCV: 1% of reading +1 digit. ACV: 3% of reading +1 digit Ohms: 2% of reading +1 digit.
AC Rejection @ 50/60/400 Hz	20 mV range: 20 mV AC 200 mV range: 5 VAC 2 V range: 120 VAC 200 V range: 600 VAC
DC Rejection	600 VAC range: 600 VDC
Zero	Automatic
Decimal Point	Automatic; set by range switch.
Polarity	Automatic; negative symbol displayed, positive assumed.
Input Resistance	20 mV range; 1000 Ohms. All other DCV ranges are switch selectable (10, 25, 50, 100, 200 megohms).
Operating Temperature	+8°F to +176°F (-14°C to +80°C).
Battery	One 9 V alkaline recommended.
Dimensions	6-1/8 x 3-5/8 x 1-3/4" overall (15 x 8 x 4.5 cm)
Weight:	11 oz. approx. (0.312 kg.)