

MC Miller

Corrosion Monitoring Equipment



LC-4 Handheld Voltmeter

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

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.

Specification: see second page.

Accessories: see third page.

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential users are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.

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LC-4 Handheld Voltmeter – Specification:

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.)

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LC-4 Handheld Voltmeter – Accessories:

	<p>Carrying Case</p> <p>Made of heavy, water resistant simulated leather, this carrying case leaves your hands free to perform tests. A quick opening snap permits ready access to the instrument, and a belt loop is included with a snap fastener.</p>
	<p>Electrode Extension Adapter Cat. # 5701 (shown with optional electrode and 30" Intermediate Extension, Cat.#16203, attached.) Designed to save effort (and your back) as well as to protect you from snakes and poison ivy, the MCM electrode extension adapter firmly mates with the base of the meter by the use of Velcro® pads. The base has a threaded socket, which connects to either input terminal by means of a test lead pigtail with a banana plug. Any MCM intermediate electrode extension can be screwed into the socket.</p>
	<p>Telescoping Ball-Top Handle Extension (with RE-5C) Cat. # 16280</p> <p>Designed to access those hard to reach places, the extension (cane) adjusts to the user's height and the twist cam lock feature secures the cane at any length. The cane measures 32 inches long when shipped to the customer and extends to a maximum length of 48 inches.</p>
	<p>Telescoping Cane Meter Adapter Cat. # 16285</p> <p>The cane adapter plate accessory attaches to the cane and combines the meter and cane as a single, easily maneuverable unit. The cane adapter plate may also be used with the electrode extension (Part # 16101) or with MCM data probes. The Velcro® strap secures any similarly sized meter, including those made by Fluke and Beckman. The cane adapter plate swivels 90 degrees and may be positioned horizontally or vertically for easy screen read out.</p>
	<p>The cane includes a one-foot test lead wire equipped with banana plugs on each end that connect the LC-4 (or equivalent meter) to the cane itself.</p> <p>16280 Telescoping Ball-Top Handle Extension with RE-5C used in conjunction with 16285 Telescoping Cane Meter Adapter for LC-4/Fluke/Beckman.</p>
	<p>External Shunt</p> <p>Two shunts which plug directly into the 20 mV range of the LC-4 Meter are available:</p> <ul style="list-style-type: none"> • 0.001 Ohm / 50 A/1 mV = 1 A (measure up to 20 A on the 20 mV range). • 0.1 Ohm / 2 A / 100 mV= 1 A (measure up to 200 mA on the 20 mV range).

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