

## MODEL LC-4.5



- **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**
- **Includes carry case with red and black test leads**



*Model LC-4.5  
Cat. No. 5203*

# GENERAL INFORMATION:

**MODEL LC-4.5:** is the first hand-held digital meter 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 resistance coating on both sides make this possible.

**LCD DISPLAY:** the large (.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-4.5:** 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.

# SPECIFICATIONS:

<b>LOGIC:</b>	C-MOS, crystal controlled timing.
<b>DISPLAY:</b>	Liquid crystal, 3-1/2" digits, .5" high.
<b>DC VOLT RANGE:</b>	0-20MV ( .01MV resolution )      0-200MV ( .1MV resolution ) 0-2V ( 1MV resolution )          0-200V ( .1V resolution )
<b>AC VOLT RANGE:</b>	0-600V (1V resolution )
<b>RESISTANCE RANGE:</b>	0-200 OHMS (.1 OHM resolution )
<b>DC CURRENT RANGE:</b>	Using optional .001 OHM LC Shunt: 0-20A (.01A resolution).
<b>ACCURACY:</b>	DCV: 1% of reading $\pm$ 1 digit. ACV: 3% or reading $\pm$ 1 digit. OHMS: 2% of reading $\pm$ 1 digit.
<b>AC REJECTION:</b>	20MV range: 20MV AC @ 50/60/400 Hx. 200MV range: 5v AC @ 50/60/400 Hx. 2V range: 120V AC @ 50/60/400 Hx. 200V range: 600V AC @ 50/60/400 Hx. 600V AC range: 600V DC
<b>DC REJECTION:</b>	600V AC range: 600V DC
<b>ZERO:</b>	Automatic.
<b>DECIMAL POINT:</b>	Automatic; set by range switch.
<b>POLARITY:</b>	Automatic; negative symbol displayed, positive assumed.
<b>INPUT RESISTANCE</b>	20MV range; 1000 OHMS. All other DCV ranges are switch selectable (10, 25, 50, 100, 200 megohms).
<b>OPERATING RANGE:</b>	+8 to +176°F ( -14 to +80°C )
<b>BATTERY:</b>	9V (1) alkaline recommended.
<b>DIMENSIONS:</b>	Weight: 11 oz approx. Size 6-1/8 x 3-5/8 x 1-3/4" overall (.312 Kg.) (15 x 8 x 4.5cm)
<b>ACCESSORIES:</b>	Includes: carry case, 1 - test lead #16 red, 1 - test lead #16 black



**INSTRUMENTS AND EQUIPMENT FOR THE CORROSION ENGINEER**

M.C. Miller Co. Inc. 11640 U.S. Highway 1 Sebastian, FL 32958  
Telephone: 772.794.9448 Fax: 772.589-9072 www.mcmiller.com