

# 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  
Item #5203



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## 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

LOGIC:	C-MOS, crystal controlled timing
DISPLAY:	Liquid crystal, 3-1/2 digits, .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 $\Omega$ (.1 $\Omega$ resolution)
DC CURRENT RANGE:	Using optional .001 $\Omega$ LC Shunt: 0-20 A (.01 A resolution).
ACCURACY:	VDC: 1% of reading $\pm$ 1 digit. VAC: 3% or reading $\pm$ 1 digit. Ohms: 2% of reading $\pm$ 1 digit.
AC REJECTION:	20 mV range: 20 mVAC @ 50/60/400 Hz 200 mV range: 5 VAC @ 50/60/400 Hz 2 V range: 120 VAC @ 50/60/400 Hz 200 V range: 600 VAC @ 50/60/400 Hz 600 VAC range: 600 VDC
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 $\Omega$ . All other VDC ranges are switch selectable (10 M $\Omega$ , 25 M $\Omega$ , 50 M $\Omega$ , 100 M $\Omega$ , 200 M $\Omega$ )
OPERATING RANGE:	8 $^{\circ}$ F to 176 $^{\circ}$ F (-14 $^{\circ}$ C to +80 $^{\circ}$ C)
BATTERY:	(1) 9 V - alkaline recommended
DIMENSIONS:	Weight: 11 oz (.312 Kg); Size 6-1/8" x 3-5/8" x 1-3/4" overall (15cm x 8cm x 4.5cm)
ACCESSORIES:	Includes: carry case, 1 - test lead #16 red, 1 - test lead #16 black

