

Analog and Digital Multimeters

Precision Testing Instruments

Numerous tests have been developed to monitor the performance of cathodic protection systems. To conduct these tests Corrpro distributes a full line of analog and digital multimeters, which are reliable, accurate, and rugged enough to withstand the most severe field conditions. They are made with solid-state circuitry and designed to operate in three different modes: AC, DC, and resistance.

In the AC mode, the multimeters can be used to check the voltage supplied to a cathodic protection rectifier. Because of built-in fuses, the meters are protected against electrical overloads. They are also designed to operate in a wide range of AC voltage levels. In the DC mode, readings from potential and current tests may be obtained. To compensate for external resistance and to ensure accurate potential measurements, all the meters supplied contain a minimum input impedance of 10 megohms. Certain models also offer selectable input resistance switches. This feature is especially useful for measuring potentials on circuits with high external resistance such as structures located in dry soils or concrete. When the meters are placed in the resistance mode, circuit and continuity measurements may be taken. The resistance measurements are obtained through DC voltage supplied by the meters and the readings provided help ensure sound wire connections.

Corrpro distributed multimeters are designed to perform under a multitude of conditions. They are made with high-impact resistance cases that protect against mechanical and electrical abuse. These cases are also water tight and are ergonomically molded for easy operator use. To



display test readings, both analog and digital meters are available. The digital meters utilize a high contrast liquid crystal display with large digits, which can be read from a wide range of viewing angles. Before shipping, each meter is tested under all functions and ranges to ensure long-life dependability.

Typical Applications

Multimeters can be used to perform a multitude of corrosion engineering tests. These include potential surveys, checking AC and DC circuits, and testing for stray wire measurements. The meters offered by Corrpro have a proven track record for accuracy and dependability under the most severe conditions. They can withstand operating temperatures ranging from 8° to 176° F.



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Ordering Procedure

Corpro is an authorized distributor for the leading multimeter manufacturers. To order the specific meter for your particular application, indicate the multimeter brand, and specify the model and quantity desired. Various accessories are also available. An example is provided to help illustrate this ordering procedure.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	1
Product	Multimeter
Brand	M.C. Miller
Model	LC-4

Authorized Distributor for the Following Manufacturers
Beckman Fluke M.C. Miller

Multimeter Specifications

MFG.	MODEL	DC VOLTAGE RANGE	AC VOLTAGE RANGE	RESISTANCE RANGE ohms	INPUT RESISTANCE megohms	NOMINAL DIMENSIONS in. (cm)			WT. oz. (g)
						L	W	D	
M.C. Miller	LC-4	20mV, 200mV, 2V, 200V	600V	0-200	10, 25, 50, 100, 200	6.13 (15.6)	3.63 (9.22)	1.75 (4.45)	16.0 (453.6)
	M-3-A2	1mV, 5mV, 10mV, 50mB, 0.1V, 0.5V, 1V, 5V, 10V	1mV, 5mV, 10mV, 50mB, 0.1V, 0.5V, 1V, 5V, 10V	—	1, 10, 25, 50, 100, 200	13.25 (33.66)	9.5 (24.13)	6.0 (15.24)	176 (4989)
	B3A2	2mV, 10mV, 20mV, 100mV, 200mV, 1V, 2V, 10V, 100V	2mV, 10mV, 20mV, 100mV, 200mV, 1V, 2V, 10V, 100V	—	1, 10, 25, 50, 100, 200	13.25 (33.66)	9.0 (22.86)	5.5 (13.97)	240 (6804)
	B-3D	20mV, 200mV, 2V, 20V	20mV, 200mV, 2V, 20V	20, 2k, 2M	10, 25, 50, 100, 200	11.0 (27.94)	9.5 (24.13)	5.5 (13.97)	192 (5443)
Fluke	83	400mV, 4V, 40V, 400V, 1000V	400mV, 4V, 40V, 400V, 1000V	400, 4k, 40k, 400k, 4M, 40M	10	7.35 (18.67)	3.41 (8.66)	1.25 (3.18)	12.5 (354.4)
	85	400mV, 4V, 40V, 400V, 1000V	400mV, 4V, 40V, 400V, 1000V	400, 4k, 40k, 400k, 4M, 40M	10	7.35 (18.67)	3.41 (8.66)	1.25 (3.18)	12.5 (354.4)
	87	400mV, 4V, 40V, 400V, 1000V	400mV, 4V, 40V, 400V, 1000V	400, 4k, 40k, 400k, 4M, 40M	10	7.35 (18.67)	3.41 (8.66)	1.25 (3.18)	12.5 (354.4)
Beckman	HD110	20mV, 2V, 20V, 200V, 1500V	200mV, 2V, 20V, 200V, 1000V	200, 2k, 20k, 200k, 2M, 20M	22	7.00 (17.78)	3.9 (9.91)	2.0 (5.08)	19.0 (541.5)



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