



CVM-780 Contact Voltmeter

The New CVM-780 Contact Voltmeter™ combines the ease of use of a digital voltmeter with the high input impedance and low input capacitance of a true electrostatic voltmeter in a small, portable, battery operated package.

Being a true electrostatic voltmeter, not a field meter means that it reads real voltage, without confusing it with electrostatic field strength, which can be distinctly different.

Specifications

Basic Description: High impedance contact voltmeter with active probe

DC Characteristics: Intended Operating Range: 0 to ±525 volts

Resolution: 1 volt, 3 digit display

Circuit accuracy: <±1%

Note: Maximum measurement range is ±575 Volts for brief

periods

Dynamic Characteristics: Response Time: Approximately 1ms for a voltage step of 200V at

the probe tip to the monitor output.

Digital display update: 3 readings per second.

Input charge/measurement: Approximately 100 femptocoulomb/volt (1.0x10⁻¹³ C/V)

≥10¹⁴ ohm in parallel with <1pF Capacitance **Input Impedance:**

Monitor Output: Scale Factor: 10,000:1; 100uV/V (Compatible with Prostat™

PGA-710 Autoanalysis System™)

Recording Deviation: Typically $< \pm 10$ volts at ± 500 Volts

Measurement Tolerances: When measuring DC voltage reference

500 V ≤±2 V
100 V ≤±2 V
50 V ≤±2 V
10 V ≤±1 V

When measuring floating conductors:

500 V ≤±5% ±2 Counts
100 V ≤±5% ±2 Counts
50 V ≤±5% ±2 Counts
10 V ≤±10% ±2 Counts

Probe Tips: Metal: Nominally 0.95 and 0.45 inch Ceramic 0.90 and 0.40 inch

±0.05"

Portable Operation: Approximately 3.5 Hours on Full Battery Charge

(Operates during Battery Charge)

Power: 4 each Energizer NH15-2500 Nickel-Metal Hydride rechargeable

batteries (AA Size)

Charger: Universal 90 to 264 Volts, 47 to 63 Hz

Meter Dimension (without boot):

6.5 in (16.5 cm) L x 4.25 in (10.8 cm) W x 1.57 in (4.0 cm) H

Meter Dimension (with boot):

7.5 in (19.1 cm) L x 4.25 in (10.8 cm) W x 2.36 in (6.0 cm) H

Probe Dimension: 8.9 in (22.5 cm) L x 1.5 in (3.7 cm) W x 0.78 in (2.0 cm) H

Meter Weight: 1.5 lbs, with boot

Probe Weight: 3.6 oz

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