



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)
- Input Impedance:

≥10¹⁴ ohm in parallel with <1pF Capacitance
- Monitor Output:

Scale Factor: 10,000:1; 100uV/V (Compatible with Prostat™ PGA-710 Autoanalysis System™)
 Recording Deviation: Typically < ±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 $\leq \pm 5\%$ ± 2 Counts
100 V $\leq \pm 5\%$ ± 2 Counts
50 V $\leq \pm 5\%$ ± 2 Counts
10 V $\leq \pm 10\%$ ± 2 Counts

Probe Tips:	Metal: Nominally 0.95 and 0.45 inch Ceramic 0.90 and 0.40 inch $\pm 0.05"$
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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