

VIJAYANTA

VIJAI ELECTRONICS
28/147, CIVIL LINES
ROORKEE - 247667



WSC
ISO - 9001-2008
Certificate No. WSC-215028-A

DIGITAL MICROVOLTMETER

Model : DMV -001



- **Very low temperature drift**
- **Low dc input bias current-10pA**
- **Measures voltage down to 1 μ V**
- **Automatic polarity indication**
- **Recorder facility (optional)**

Digital Microvoltmeter, DMV-001 is a very versatile multipurpose instrument for the measurement of low dc voltage. It has 5 decade ranges from 1mV to 10V with 100% over-ranging. For better accuracy and convenience, readings are directly obtained on 3½ digit DPM (Digital Panel Meter).

This instrument uses a very well designed chopper stabilized IC amplifier. This amplifier offers exceptionally low offset voltage and input bias parameters, combined with excellent speed characteristics.

Filter circuit is provided to reduce the line pickups of 50Hz. All internal power supplies are IC regulated.

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APPLICATIONS :

- ❖ DC voltage measurements from high impedance sources; output of photomultiplier tubes, photocells, radiation detector etc.
- ❖ Very low voltage measurement, direct measurement of thermo-couple output to read temperatures with a resolution of 1/40th of a degree (Chromel-Alumel).
- ❖ General purpose laboratory instrument for voltages upto 19.99V DC.
- ❖ (Hall Effect, Four Probe, Thermoluminescence, Transistor and Diode characteristics etc.)

SPECIFICATION :

Range	1mV, 10mV, 100mV, 1V & 10V with 100% over-ranging.
Resolution	1 μ V
Accuracy	$\pm 0.2\%$ ± 1 digit
Stability	Within ± 1 digit
Input Impedance	>1000M Ω (10M Ω on 10V range)
Display	3 $\frac{1}{2}$ digit, 7 segment LED with autopolarity and decimal indication
Power Supply	220V $\pm 10\%$, 50Hz
Weight	2.5Kg
Dimensions	245mm X 280mm X 120mm