

## DIGITAL MICROVOLTMETER

Model : DMV - 001



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

Digital Micro voltmeter, 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.

### **VIJAYANTA TECHNOLOGIES PVT. LTD.**

(Formerly Vijai Electronics)

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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, Thermo luminescence, Transistor and Diode characteristics etc.)

## **SPECIFICATION :**

<b>Range</b>	1mV, 10mV, 100mV, 1V & 10V with 100% over-ranging.
<b>Resolution</b>	1 $\mu$ V
<b>Accuracy</b>	$\pm 0.2\%$ $\pm 1$ digit
<b>Stability</b>	Within $\pm 1$ digit
<b>Input Impedance</b>	>1000M $\Omega$ (10M $\Omega$ on 10V range)
<b>Display</b>	3½ digit, 7 segment LED with autopolarity and decimal indication
<b>Power Supply</b>	220V $\pm 10\%$ , 50Hz
<b>Weight</b>	2.5Kg Approximately
<b>Dimensions</b>	245mm $\times$ 280mm $\times$ 120mm

**Note: There may be any change in specification due to continuous R & D without notice.**

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