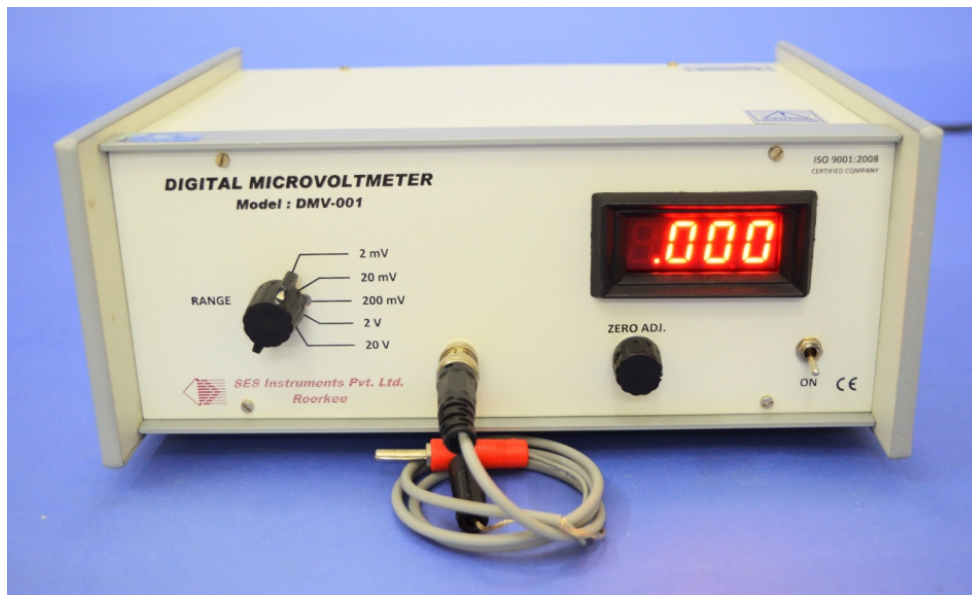


DMV-001

Digital Microvoltmeter



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

Introduction

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.

Applications

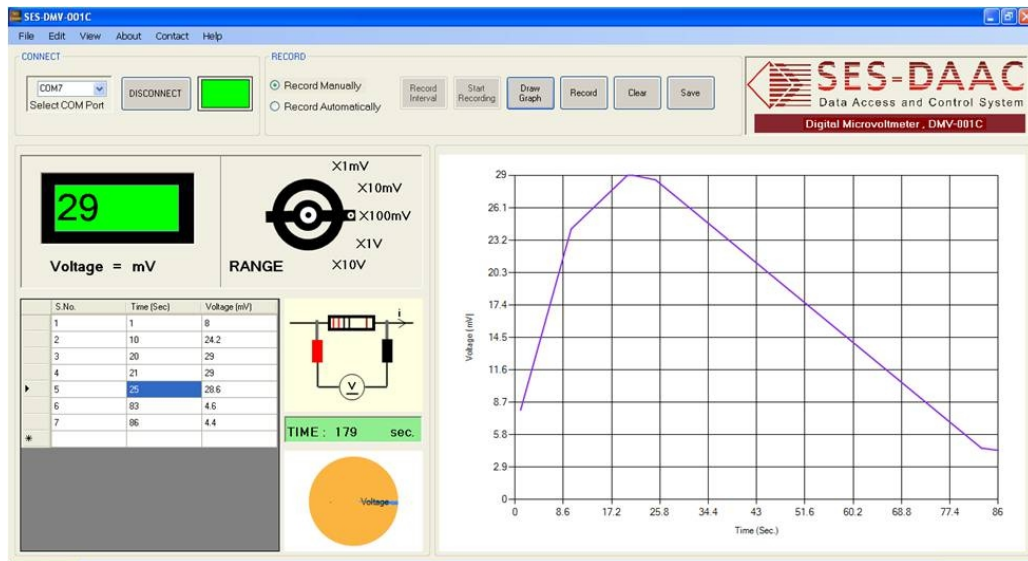
- DC voltage measurements from high impedance sources; output of photomultiplier tubes, photo cells, radiation detector etc.
- Very low voltage measurement, direct measurement of thermocouple output to read temperatures with a resolution of 1/40th of a degree (Chromel-Alumel).
- General purpose laboratory instrument for voltages upto 19.99VDC. (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	: $\pm 0.2\% \pm 1$ digit
Stability	: Within ± 1 digit
Input Impedance	: >1000M Ω (10M Ω on 10V range)
Display	: 3½ digit, 7 segment LED with autopolarity and decimal indication
Interfacing	: USB (in DMV-001-C2 only)
Software	: DACC and CAMM, both Window compatible
Power Supply	: 220V $\pm 10\%$, 50Hz
Weight	: 2.5Kg
Dimensions	: 245mm X 280mm X 120mm

DMV-001

Digital Microvoltmeter



Computer Interface, SES-DAAC (In DMV-001-C2 only)

The unit can be connected directly to a PC through a USB. SES-Data Access And Control is a built-in interface which gives user an option to store a value as displayed on the meter and tabulate it by the click of a button on the screen. Alternatively the data may be automatically entered into a table at user selectable interval. An 'END' button on the screen terminates the automatic tabulation. The data stored in the table may then be displayed as a graph on the screen and may also be stored in an excel file for further processing. The software supplied with the unit is menu driven and is simple to operate.



SES-CAMM Compatible (In DMV-001-C2 only)

This unit can also be connected to a PC through an interface module SES-CAMM to record the voltage values. SES-CAMM is a computer aided measurement module for connecting multiple subunits of experiments, such as Four Probe Setup, to same interface on a computer. This feature is particularly useful in making this model compatible with computerized versions of complete experiments from our company.

