



**OMEGA TYPE DMV-022** Digital D.C. Micro voltmeter is 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 LED display. IC amplifier used 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.

#### FEATURES

- 01 Measures voltage down to 1mV.
- 02 Very low temperature drift.
- 03 Automatic polarity indication.
- 04 Low dc input bias current – 10pA.
- 05 Portable with compact size and light weight.

#### APPLICATIONS

- 01 DC voltage measurements from high impedance sources; output of photo multiplier tubes, photo cells, radiation detector etc.
- 02 Very low voltage measurement - direct measurement of thermocouple output to read temperatures with a resolution of 1/40<sup>th</sup> of a degree (Chromel - Alumel).
- 03 General purpose laboratory instrument for voltages upto 19.99 V DC.

#### SPECIFICATIONS

- |                      |  |
|----------------------|--|
| 01 RANGE             | : 1mV, 10mV, 100mV, 1V & 10V with 100% over-ranging.                                 |
| 02 ACCURACY          | : ±0.25% for all ranges  |
| 03 RESOLUTION        | : 1µV.   |
| 04 INPUT IMPEDANCE   | : > 1000 MW (10MW on 10V range)  |
| 05 DISPLAY           | : 3½ digit 7 segment, LED (12.5 mm height) with autopolarity and decimal indication. |
| 06 INPUT             | : Through am phenol connector.   |
| 07 POWER REQUIREMENT | : 230VAC ± 10%, 50Hz.  |
| 08 Weight            | : 3.00 Kg. (Approx.)   |
| 09 Dimension         | : W 290 x H 160 x D 230  |

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## OMEGA ELECTRONICS