



### 3.5 DIGITS LED DC VOLTAGE MODULE ó UP5035

Improved from our old popular item with SMD components, and keeping all of its functions and useful features.

1. Employed a renowned industrial grade A/D IC, with its high impedance, good linearity and adjustable Voltage Reference, it is not only directly used as a precision DC Voltmeter/Current meter, but also may be become a Digital Thermometer, Hygrometer and pH meter etc. with the sensor and its linear compensation circuit.
2. True Differential Input, on board select basic range (B/R) or the B/Rx100 by a jumper.
3. With header pin for Inputs, Functions and Decimal Point (D.P.) select. 79 x 43mm plastic frame with plug-in-self-clip mounting. Standard item is DC 9V P/S and the ranges DC 199.9mV/19.99V ; May be order ranges DC 1.999V/199.9V.

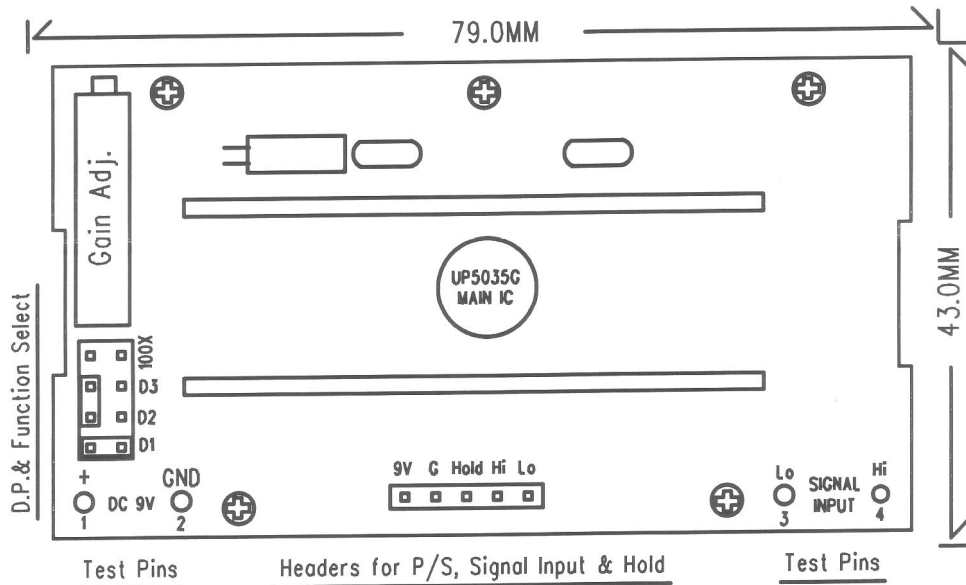
#### **SPECIFICATIONS**

POWER SUPPLY	- DC 9V, 1mA; ðLoBatö flag visible is approx. at 6.8V
DISPLAY	- 3 1/2 digit red LED with D.P., Digit high 13MM (0.51ö)
OVER RANGE	- Show ð1ö on left of the display
CONVERSION RATIO	- Approx. 2.5 time per second
FULL SCALES	- DC +/-199.9mV/19.99V or 1.999V/199.9V
INPUT IMPEDANCE	- 200mV/2V >1,000Mö; 20V/200V ð1 Mö
ACCURACY & LINEARITY	- 0.2% of reading + 1 digit & +/- 1 digit
TEMP. COEFFICIENT	- 100 PPM/öC
OTHERS	- Auto zero/polarity; True Differential Input
OP. TEMP. & HUMIDITY	- 0 - 50öC & <90%
STORE TEMPERATURE	- -20 to 60öC
DIMENSION & WEIGHT	- 79 x 43 x 25MM & 45G
PANEL CUT-OUT/THICKNESS	- 76 X 40/1 ó 3MM
CONNECTIONS	- 4P Test Pin for P/S and DC Signal Inputs, or with 5P (5x1) header pin for P/S, Hold and DC Signal Input; 4P (4x2) dual line header for D.P. and Function select by jumper
ACCESSORY	- 1 pc. of 5P socket wires (length 150MM)

## APPLICATIONS

- ◆ Direct use: DC Voltage/Current DPM
- ◆ May be Digital Meters: Thermometer, Hygrometer, pH, Bridge readout, Ohms, Power, AC voltage, AC current, Capacitance, Digital scale and Power supply readout í

## OUTLINE AND DIMENSIONS



### 4P TEST PIN FOR P/S AND DC SIGNAL INPUT

- |                          |                          |
|--------------------------|--------------------------|
| (1) Power Supply: DC 9V+ | (2) Power supply: Ground |
| (3) DCV signal input: Lo | (4) DCV signal input: Hi |

**Remark:** You may only use the inputs of P/S and Signal either from Test Pins or the 5P Header pins.

### 5P (5X1) INPUT HEADER PIN

- |                          |                          |
|--------------------------|--------------------------|
| (1) Power Supply: DC 9V+ | (2) Power supply: Ground |
| (3) Hold reading (to P1) | (4) DCV signal input: Hi |
| (5) DCV signal input: Lo |                          |

### 4P (4X2) DECIMAL POINT & FUNCTION SELECT

- Put a jumper into a pair of 100X pins the 100X function enable, means that the basic range is enlarged to 100 times. For example, the basic range DC199.9mV → DC19.99V; DC1.999V → DC199.9V.
- Put a jumper into a pairs of header pin to make the D.P. visible.

## HOW TO MAKE DVM TO A DC CURRENT METER

- The total Watt. of the  $R_s$  must be noticed, the wire round resistor is recommended.
- The meter must be in 200mV range for the DC current meter.

