3-1/2 DIGITS 0.36” MINI LED DVM

1. UP-42135 is a small size universal Digital Voltage Module
2. It is also a precision DVM. With a quartz for system clock, selectable the built-in temperature compensated Ref. Volt (RV) or an external RV, multi turns trimmer and 100x range select, suitable for Indusial and commercial usages
3. Via 2 lines of 6P header pin I/O connections; Back side is **sealed by epoxy,** to be anti dust and moisture.

SPECIFICATIONS:

POWER SUPPLY: - Single DC 5V/50mA

DISPLAY: - 3 1/2 digit 0.36” (9.1MM) red LED. Special order for yellow or blue

INPUT RANGES: - +/- DC199.9mV/19.99V, over range show “1”; D.P. set by jumper
With Ref. Volt. In/Out ports, it may be set to customer ranges.

INPUT IMPEDANCE: - At 199.9mV scale >1,000M Ohm; Extend range 1M Ohm

ACCURACY/LINEARATY: - 0.2% of reading + 1 count in basic range & +/- 1 digit

TEMPERATURE COEFF.: - Better than 100PPM/℃

OTHER FUNCTIONS: - Auto zero and auto polarity; Support Differential or Single End Input

INPUT CONNECTIONS: - 6P (pitch 2.54MM) header pin x 2, come with 1 pc. of 6P wire socket

OP. TEMP & HUMIDITY: - 0 – 50℃ & <90%; Storage temp.: -20 to 60℃

DIMENSION & WEIGHT: - 42 X 23 X 26 MM, 30G

MOUNTING: - Plug-in Panel mounted or solder on PCB, come with a plastic frame or metal plate for fixture

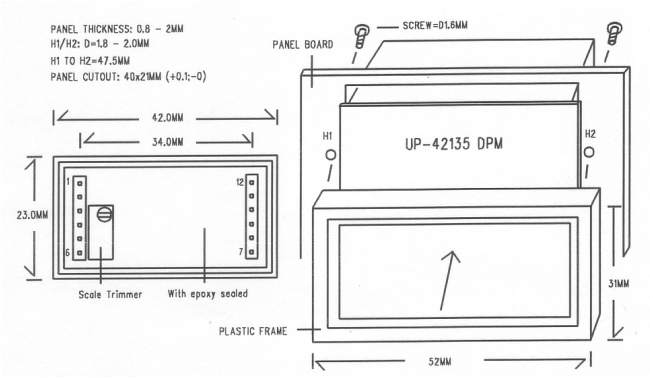
CONNECTIONS OF 6P X 2 HEADER PIN:

1) D.P. 1	12) P/S: DC 5V+
2) D.P. 2	11) P/S: G
3) D.P. Com.	10) 100X (to Analog G.)
4) D.P. 3	9) IN Hi
5) Ref. Volt. Out	8) IN Lo
6) Ref. Volt. In	7) Analog Ground

TYPICAL APPLICATIONS:

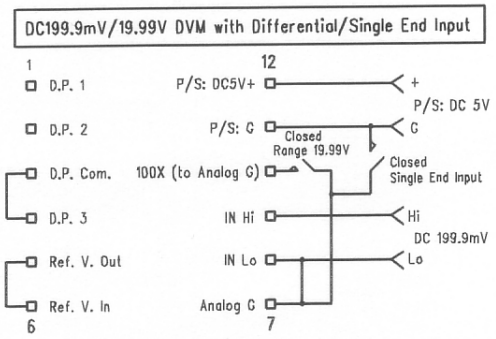
* DPM: DC Voltage, DC Current
* Thermometer, Hygrometer, pH
* Bridge readout, Ohms, Power
* AC voltage, AC current
* Capacitance, Inductance
* Fluid flow rate, Digital scale

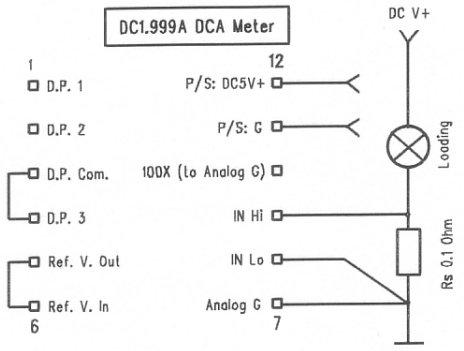
REAR VIEW AND HEADER LOCATION:



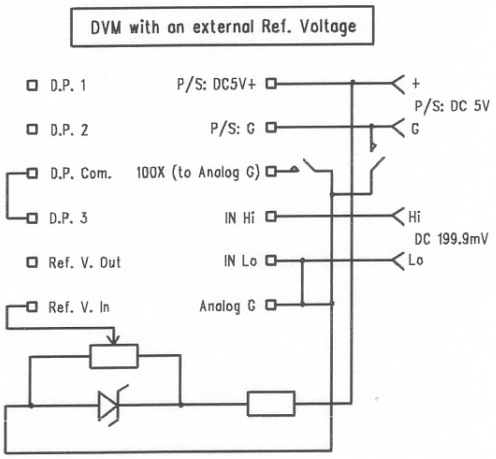
- ★ Panel Cut-out: 40 x 21MM (+0.1/-0)
- ★ Panel thickness: 0.8 - 2MM
- ★ Cover frame size: 52x31MM
- ★ H1 to H2 (center): 47.5MM
- ★ Diameter of H1 & H2: 1.8 - 2.0MM
- ★ H/P (P1-P6) to H/P(P7-P12): 34MM

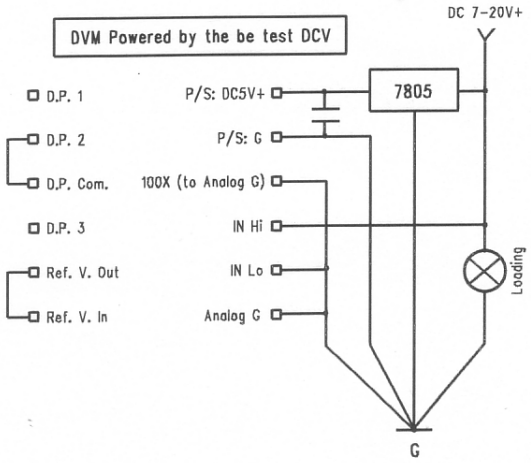
TYPICAL USAGE DIAGRAMS:



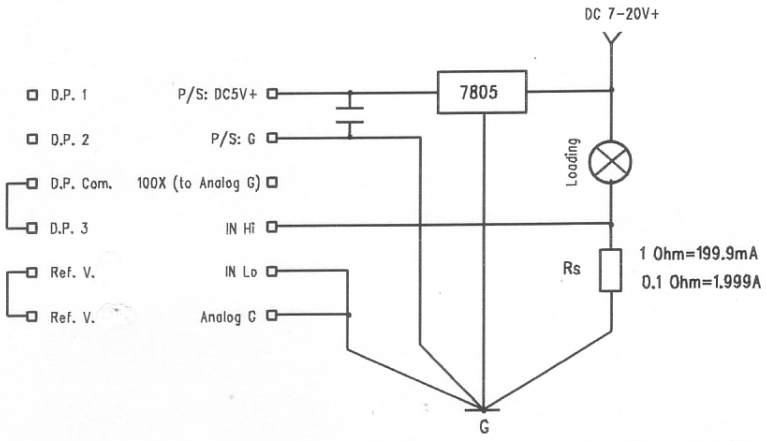


METER WITH EXTERNAL R.V. AND POWERED BY THE BE TEST DCV:





DCA METER POWERED BY THE BE TEST SOURCE POWER SUPPLY:



Notes: *1. DCA meter has to be with 199.9mV range and Single End Input; And the Rs should be a 1W wire wound resistor.*

2. The meter may be extended the test range with a big Current Shunt to be instead of Rs. The standard ones are 75mV/5A, 75mV/50A, 75mV/100A…

USAGE OF Ref. V Out (P5) & Ref. V In (P6):

1. UP-42135 is built-in a 2.5V Temp. Compensated IC for system reference, so normally P5 and P6 have to be tied together. P5 (Ref. Out) also be for other usage but the output not over 2mA.
2. An external Ref. Voltage can be used via P6 and P7, but must open P5. It's also an idea for one DPM with 2 functions that by changing DPM Ref. Voltage Input from either an internal or external Ref. Source.