

*BCD Output (Option)



■ DC Voltage Measurement

Model	Range	Maximum Resolution	Input Impedance	Input Protection
AP-142-11	±199.99mV	100µV	100MΩ	±250V
AP-142-12	±1.9999V	100µV	100MΩ	±250V
AP-142-13	±19.999V	1mV	1MΩ	±250V
AP-142-14	±199.99V	10mV	1MΩ	±500V

Accuracy: ±0.03%rdg ± 1 digit (23°C±5°C)

■ Specifications

Input Configuration: Single Ended
Input Bias Current: 100PA (Typ.)
Conversion Rate: 2.5/sec
Normal Mode Rejection: More than 50dB (50/60Hz)
Zero Stability: Automatic Zero Adjustment
Display: LED 14.2mm 4 1/2-digit
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, 0000 or -0000 flashes.
Power Supply: AC90~132V
 AC180~264V
 DC5V ±5%, 170mA (Max.)
Operating Temperature: 0~50°C, 35 to 85%RH
Power Consumption: 2VA
Dimensions: 48(H) × 96(W) × 73(D)mm DIN Size
Weight: Approx. 190g (For AC), 125g (For DC)
Dielectric Strength: AC type; Between input (Lo) terminal and earth, DC ±500V
 Between power supply terminal and input terminal, earth, common, case, AC1500V/1 min.
 DC type; Between input (Lo) and power supply (0V), DC ±500V
Insulation Resistance: DC500V 100MΩ at above terminals

■ BCD Data Output (Isolated from input (Lo))

• At Open Collector (option)
Measured data: Negative logic transistor "ON" at logic "1"
Polarity signal: Transistor "ON" at plus input
"OVER" signal: Transistor "ON" at overflow input
Printing command signal: Transistor "ON" during a period of approx. 1ms at every measurement completion
Transistor output capacity: Applied voltage, 30V max.
 (NPN) current, 10mA max.
 Saturated output voltage less than 1.2V at 10mA

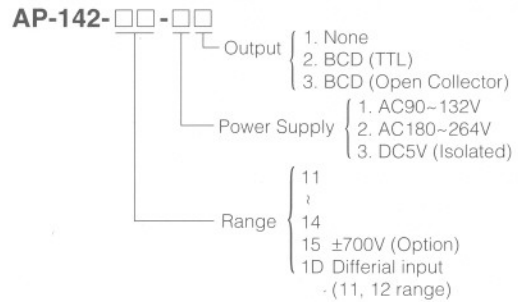
• At TTL level
Measured data: Tri-state parallel BCD positive logic latch output
Polarity signal: "1" level at plus input
"OVER" signal: "1" level at overflow input
Printing command signal: A positive pulse of approx 1ms at every measurement completion

Each signal of the above: TTL level Fanout= 2
 *Each signal of the above can be changed to negative logic

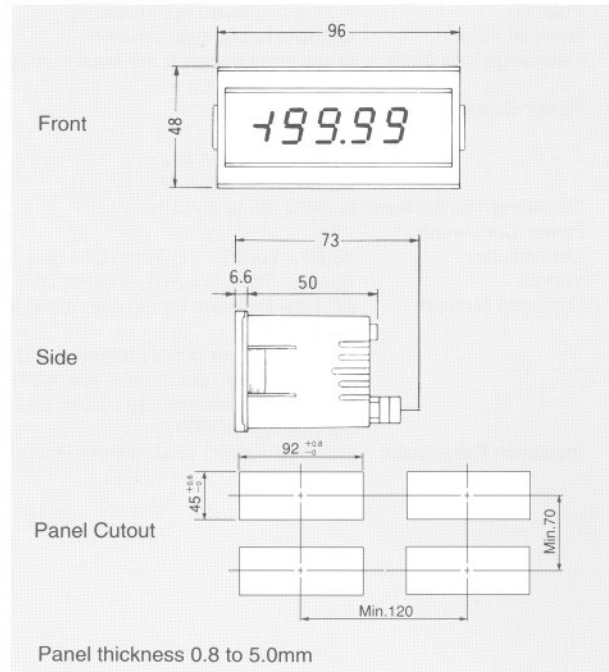
■ Features

- BCD (Option)
- Bright LED 14.2mm (Red)
- AC180~264V, 90~132V, DC5V
- 200mV~200V Measurement
- ±700V Measurement (option)
- Current Measurement (option)
- BCD Open Collector available (option)

■ Ordering Code

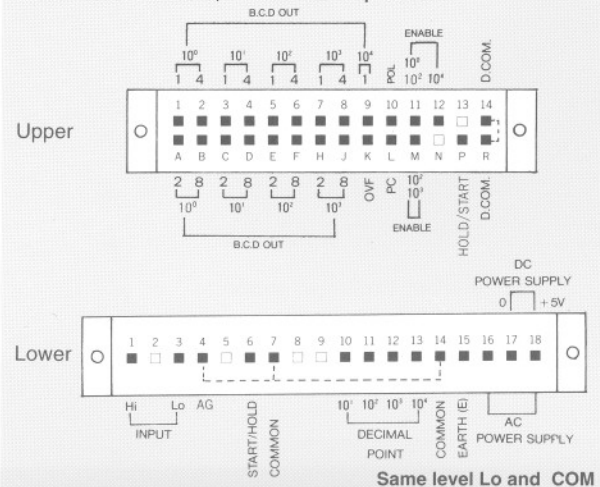


■ Dimensions



■ Connection Diagram

* Same level ov and D, COM at 5VDC operation



Sales, Service, Technical support

Topac Inc.

101 Derby St., Hingham MA 02043 USA
 www.topac.com, sales@topac.com
 Tel: 781 740 8778 Fax: 781 740 8779