



# H965 Series

## 3.5 Digit LCD Panel Meter



### Features

- Space saving design only 0.67" (17mm) deep.
- Occupies less than 2.5 x 1.1 inches of front panel space.
- High contrast LCD.
- 3½ digits with 0.39" LCD.
- Snap-In bezel eliminates the need for mounting hardware.
- Low power requirement (3mA) is ideal for battery powered applications.
- User-selectable Decimal Points.

### Ordering Information

Part Number	Meter Input
9650FO	200mV
9652FO	2V
9654FO	20V
C10-5	5" - 10 Pin Connector / Wire Assembly
J1C10	12" - 10 Pin Connector / Wire Assembly
PW2-5	Regulated 120V AC to 5V DC Power Supply

### 3½ Digit LCD

#### Specifications

##### Display

Digits: 3 ½ digits ( $\pm 1999$  counts)  
 Type: 0.39" (10mm) high contrast reflective LCD  
 Polarity: automatic, "-" displayed  
 Decimal Points: 3 position, user-selectable  
 Overrange: three lower order digits blank for inputs  
 $> 1999$  &  $< -1999$

##### Inputs

Ranges:  $\pm 200.0$  mV,  $\pm 2.000$  V,  $\pm 20.00$  VDC  
 Configuration: bipolar, differential  
 Protection:  $\pm 350$  VDC, ( $\pm 100$  VDC on 200 mV range)  
 Impedance:  $> 1$  M $\Omega$ , ( $> 10$  M $\Omega$  on 200 mV range)

##### Performance

Accuracy:  $\pm(0.1\% + 1$  counts) typical  
 $\pm(0.2\% + 2$  counts) maximum  
 Conversion Rate: 3 per second  
 Normal Mode Rejection:  $> 30$  dB @ 60 Hz  
 Common Mode Range:  $\pm 1$  VDC  
 Common Mode Rej.:  $> 86$  dB  
 Zero Adjustment: automatic  
 Warmup: 10 minutes typical  
 Temperature Coeff.:  $\pm 100$  ppm per °C typical

##### Environment

Operating Range: 0 to 50 °C  
 Storage Range: -10 to 70 °C

##### Power Supply

Voltage: +5 VDC ( $\pm 5\%$ )  
 Current: 3 mA

##### Mounting

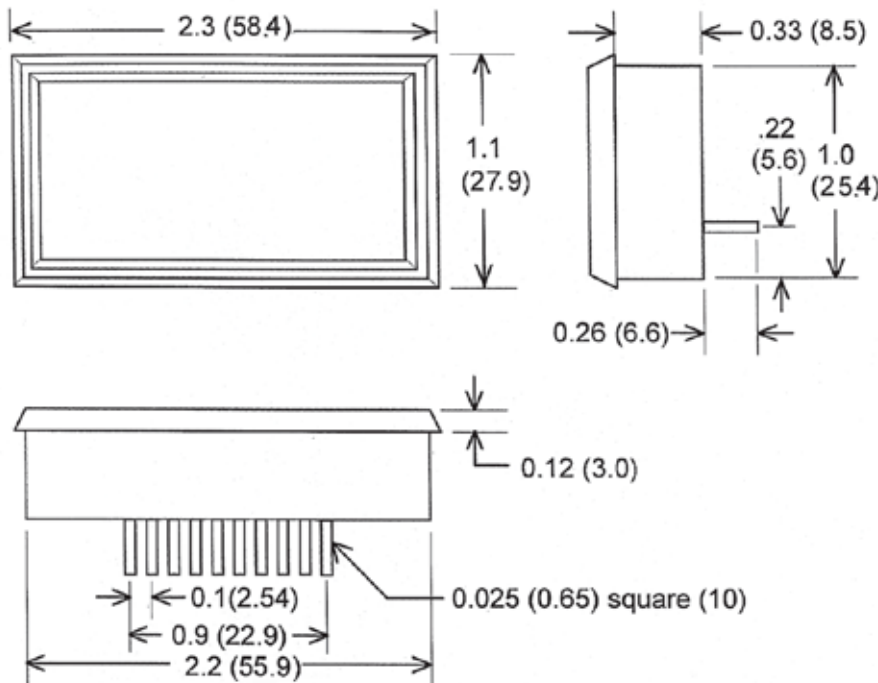
snap-in bezel mount

##### Connection

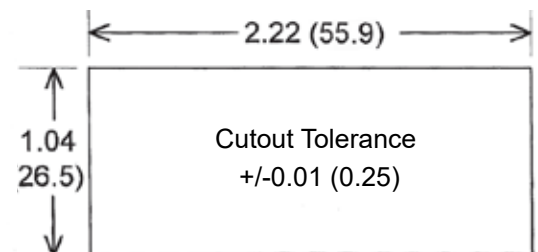
10 pins, 0.025" square on 0.1" centers



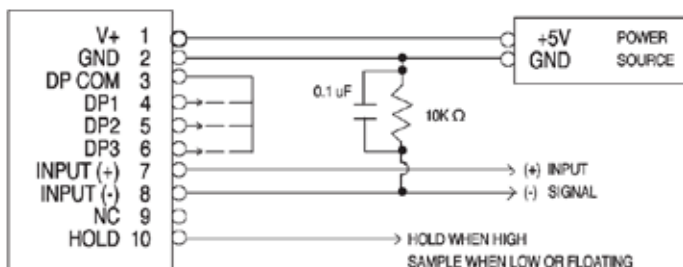
### Dimensions Inches (mm)



### CUTOUT



### Wiring



The Input common mode range is  $\pm 1$ VDC. If Input (-) is not directly connected to GND, a 10k resistor network can be connected as shown to reduce unstable readings.

Unused pins should be left open.

**CAUTION:** Damage to the unit can occur if the power source polarity is reversed, or a greater than 6V is applied between pins 1 & 2

Pin No.	Pin Name	Description
1	+5V	+5V DPM power supply
2	GND	Power supply ground
3	DPC	Decimal point return
4	DP1	1XX.X (connect to DP COM to turn on)
5	DP2	1X.XX (connect to DP COM to turn on)
6	DP3	1.XXX (connect to DP COM to turn on)
7	INPUT(+)	Positive input signal
8	INPUT(-)	Negative input signal
9	NC	No connection required
10	NC	No connection require