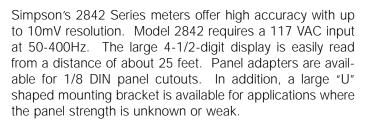
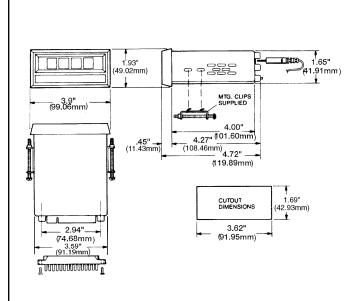


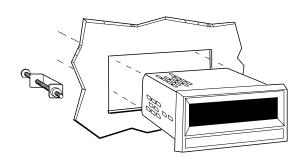
- Four Voltage Ranges Available: 200mV, 2V, 20V, 200V
- Jumper-Selectable Decimal Point
- Input Edge Connector
- 4-1/2 digit, 0.56" Red LED Display
- Model 2842 Requires 117 VAC Power Supply
- Optional Display Hold
- Additional Rear Terminal Connector Available
- Optional "U" Shaped Mounting bracket



The optional Display Hold can be activated from the rear connector (when ordered). Typically a switch (optional) is used to activate the Display Hold so the operator may take a reading from the display.

# - Installation and Panel Cutout





### **Mounting Requirements**

The 2842 indicators are installed with the mounting hardware provided. Slide the meter through the panel cutout. Next, insert a side mounting bracket to each side of the meter. Use the two holes located near the bezel to attach them to the meter. Slide the brackets back until they lock into the meter. Turn the screws in each bracket until they firmly contact the panel surface. Attach the wiring connections to the meter.



# **Specifications**

#### DISPLAY

Type: 7-segment, Red LED Height: 0.56" (14.2mm) Decimal point: Jumper-selectable Overrange indication: All digits blink "0"

#### POWER REQUIREMENTS

AC Voltages: 117V,  $\pm 10\%,\,50Hz$  to 400Hz, 6VA Rated Circuit to Ground Voltage: 250VDC

**ACCURACY @ 23°C**, **±2°C** ±0.02% of input ± 1 count

### ENVIRONMENTAL

Operating Temperature: 0 to  $55^{\circ}$ C Storage Temperature: -40 to  $60^{\circ}$ C Relative Humidity: 0 to 85%, non-condensing Temp Coefficient:  $\pm(0.005\% + 0.1 \text{ digit})^{\circ}$ C Warmup time: 15 minutes

### ANALOG TO DIGITAL CONVERSION

Technique: Dual Slope Rate: 2.5 samples/second-nominal

#### MECHANICAL Bezel: 1.93" x 3.9"

(49mm x 99mm)

### MECHANICAL (cont.)

Depth: 4.72" (120mm) Panel cutout: 1.68" x 3.622" (42.72mm x 92mm)

Weight: 12.5oz (354.3g)

## INPUTS : DC Voltage

Range	Display	Input	
	Resolution	Resistance	
200mV	10µV	100M $\Omega$	
2V	100µV	100M $\Omega$	
20V	1mV	100M $\Omega$	
200V	10mV	100M $\Omega$	

# Connections



These instruments are designed for maximum safety to the operator when mounted in a panel according to instructions. They are not to be used unmounted or for exploratory measurements in unknown circuits.

#### **Pin Connections**

The signal and power inputs are made on the rear connector. Make sure the connector is firmly attached to the meter. Connections for each pin are summarized in the table below. This allows the meter to be used in multiple locations by moving it from connector to connector. Additional connectors are available.

#### Input Signal

The "+" signal input is connected to Pin S. The "-" signal input (common) is connected to Pin P.

#### **Display Hold**

This optional feature must be specified when ordering. By shorting Pin H to Pin J, the displayed value can be held indefinitely. This short can be controlled by a switch (optional). This will allow the operator to flip the switch (holding the display) and to take a reading. The switch is then turned off, and the display functions normally again.

### Supply Power

If the unit is VAC powered, attach the neutral to Pin C. The Ground is connected to Pin #1 and A. The High (or Hot) is connected to Pin E. If your application changes and you want the unit to be 220 VAC power supplied, return the unit to our factory or to an Authorized Service Center. If the unit is powered by VDC, attach the VDC return to Pin #1 and A. The "+" VDC is connected to Pin #4.

#### **Remote Decimal Point**

This option allows you to remotely select different decimal points without opening the meter to make the changes. This option can be installed by the factory or one of our Authorized Service Centers. Remote Decimal Point uses the same terminal points as BCD outputs, eliminating the BCD capabilities if specified.

Pin		Pin	
Number	2842 Circuit	Number	2842 Circuit
1	3rd wire GND	A	3rd wire GND
2	NC	В	NC
3	NC	С	120 VAC Neutral
4	NC	D	NC
5	NC	E	120 VAC High
6	NC	F	NC
7	(Strobe)	Н	(Hold/Remote)
			DP Common)
8	(LSD, A0)	J	Digital Common
9	(A1)	K	(A, B1, or DP3)
10	(A2)	L	(B, B2, or DP2)
11	(A3)	M	(C, B3, or DP1)
12	(MSD, A4)	N	(D, B4, or DP4)
13	Polarity	Р	"-" Input Common
14	NC	R	NC
15	NC	S	"+" Input

# - Jumper Decimal Point -

The decimal point can be changed by moving Jumper J4 inside the unit. The meter must be disassembled, exposing the main board. The Edge Connector should be removed first. Next, remove the two screws on the back of the bezel. Remove the front bezel, and slide out the main board.

# Jumper Position 4 1000.0 1 100.00 2 10.000 3 1.0000



The Jumper Positions are printed on the main circuit board of the meter. After moving the jumper to the location you selected, slide the circuit board back into the meter case and reassemble the meter.

# - Accessories -

### **Ordering Information**

Optional Mounting	Catalog
Hardware	Number
1/8 DIN Panel Adapter	22992
"U" Type Mounting Bracket	22991
Extra Edge Connector	22990

Please see the Accessory Section for full details on Mounting Hardware.

# Safety Symbols -



The WARNING sign denotes a hazard. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury.



The CAUTION sign denotes a hazard. It calls attention to an operating procedure, practice, or the like, which, if not correctly adhered to could result in damage to or destruction of part or all of the instrument.

# Ordering Information –

	Model 2842
Range	117VAC
200mV	24860
2V	24861
20V	24862
200V	24863