

# 2800 Series Digital Panel Meters



- 3 ½ digit red LED display
- Input/output edge connector
- “U” – shaped mounting bracket
- Jumper – selectable decimal point

| Inputs     |                    |               |
|------------|--------------------|---------------|
| DC Voltage |                    |               |
| Range      | Display Resolution | Maximum Input |
| 200mV      | 100µV              | 100MΩ         |
| 2V         | 1mV                | 100MΩ         |
| 20V        | 10mV               | 10MΩ          |
| 200V       | 100mV              | 10MΩ          |
| AC Current |                    |               |
| Range      | Display Resolution | Maximum Input |
| 20µA       | 10nA               | 20mA          |
| 200µA      | 100nA              | 20mA          |
| 2mA        | 1µA                | 20mA          |
| 20mA       | 10µA               | 100mA         |
| 200mA      | 100µA              | 1mA           |
| DC Current |                    |               |
| Range      | Display Resolution | Maximum Input |
| 20µA       | 10nA               | 20mA          |
| 200µA      | 100nA              | 20mA          |
| 2mA        | 1µA                | 20mA          |
| 20mA       | 10µA               | 100mA         |
| 200mA      | 100µA              | 1mA           |

| 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                     | 120V, ±10%, 50Hz to 400 Hz, 3VA                                  |
| DC Voltages                     | 5 DCV  |
| Rated Circuit to Ground Voltage | 250 DCV (Models 2865 and 2869) or -4.06 to +4.5 DCV (Model 2866) |
| ACCURACY @ 23°C, ±2°C           | ± (1.0% of input +5 counts) 45Hz to 1KHz                         |
| ENVIRONMENTAL                   |  |
| Operating Temperature           | 0 to 55°C  |
| Storage Temperature             | -40 to 60°C  |
| Relative Humidity               | 0 to 85°, non-condensing   |
| Temperature Coefficient         | ± (0.1% of input) ± 0.5 count / per °C                           |
| Warmup time                     | 15 minutes   |
| A TO D CONVERSION               |  |
| Technique                       | Dual slope   |
| Rate                            | 2.5 samples / second-nominal                                     |
| MECHANICAL                      |  |
| Bezel                           | 1.93" x 3.9" (49mm x 99mm)                                       |
| Depth                           | 4.72" (120mm)  |
| Panel cutout                    | 1.68" x 3.622" (42.72mm x 92mm)                                  |
| Weight                          | 12.5 oz. (354.3 g)   |

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| Ordering Information - |           |             |         |
|------------------------|-----------|-------------|---------|
| Catalog No.            | Model No. | Input Range | Power   |
| 24500                  | 2865      | 0-200 DCmV  | 120 VAC |
| 24501                  | 2865      | 0-2 DCV     | 120 VAC |
| 24502                  | 2865      | 0-20 DCV    | 120 VAC |
| 24503                  | 2865      | 0-200 DCV   | 120 VAC |
| 24504                  | 2865      | 0-20 DCμA   | 120 VAC |
| 24505                  | 2865      | 0-200 DCμA  | 120 VAC |
| 24506                  | 2865      | 0-2 DCmA    | 120 VAC |
| 24507                  | 2865      | 0-20 DCmA   | 120 VAC |
| 24508                  | 2865      | 0-200 DCmA  | 120 VAC |
| 24600                  | 2866      | 0-200 DCmV  | 5DCV    |
| 24601                  | 2866      | 0-2 DCV     | 5DCV    |
| 24602                  | 2866      | 0-20 DCV    | 5DCV    |
| 24603                  | 2866      | 0-200 DCV   | 5DCV    |
| 24630                  | 2869      | 0-200 ACmV  | 117 VAC |
| 24631                  | 2869      | 0-2 ACV     | 117 VAC |
| 24632                  | 2869      | 0-20 ACV    | 117 VAC |
| 24633                  | 2869      | 0-200 ACV   | 117 VAC |
| 24634                  | 2869      | 0-20 ACμA   | 117 VAC |
| 24635                  | 2869      | 0-200 ACμA  | 117 VAC |
| 24636                  | 2869      | 0-2 ACmA    | 117 VAC |
| 24637                  | 2869      | 0-20 ACmA   | 117 VAC |
| 24638                  | 2869      | 0-200 ACmA  | 117 VAC |

## Mounting Instructions

The 2800 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.

