

Power

+5VDC @ 100mA (20mA in the Display Blank mode). Regulation: +1%. Absolute minimum/maximum is 4.8V/5.5V. Noise and ripple not to exceed +1%.

Environmental

Operating Temperature: 0 to +60°C.
Storage: -40 to +85°C.

Sample Rate

250 updates per second.

Control Inputs

Hold, Display Test, Strobe inputs. Logic "0" or closure to ground initiates function (Hold and Strobe inputs are invertible). All control inputs are pulled up to +5V through a 10 kW resistor. Logic "0" is < 0.8 V @ 400mA. Logic "1" is > 3.15 V @ 0.5mA. Absolute maximum input level is 50V.

Data Input

Full parallel/ BCD 5 V (TTL) to 48 V.

Data

Full parallel or strobed (multiplexed), positive or negative true, 8421 Code B BCD, Hexadecimal or Octal. Compatible with TTL, CMOS, or any positive voltage level up to 50V. Logic "1" is > 3.15 V @ 0.5mA. Logic "0" is < 0.8V @ 400 mA. Absolute maximum input level is 50V. These inputs are internally pulled up to +5 V through a 10 kW resistor so they can be driven by devices with open collector outputs. Polarity: Logic "0" or closure to ground lights polarity indicator. Decimal Points: One input pin for each decimal point. Logic "0" or closure to ground lights the decimal point.

Data Loading Rate

With full parallel input, minimum loading time is 5μ sec. When multiplexing, minimum loading time is 25μ sec per word.

Display

0.56" (14mm) height, 7 segment LED.
Four or Six digit plus negative polarity sign.

Controls and Adjustments

Under access door. DIP switches to select positive or negative true data, Code B or Hexadecimal inputs, invert strobe and hold functions, and parallel or strobed inputs.

Accessories

Latching ears for 50-pin connectors.
Door labels.

Options

90: NEMA 4X cover.
Support Modules (Include Screw Terminals)
SM90100: 5VDC Power.
SM90101: 120VAC Power.
SM90102: 120VAC Power, 2 – 28VDC Output.
SM90140: Optically Isolated, 120VAC Power, 12VDC Output (1496 only).
SM90141: Optically Isolated, 120VAC Power, 12VDC Output (1497 only).

Other Features

Data latching allows strobe of one to six digits Hex or Code B display formats.

Remote Display Meters with Parallel BCD Outputs**

| Parallel BCD – Remote | | |
|-----------------------|----------------|-------------------|
| P/N | Display Format | Display Size/Type |
| 1496 | -9.9.9.9 | 0.9" LED |
| 1497 | -9.9.9.9.9.9 | 0.9" LED |

**For Tristate contact factory.



| REMOTE DISPLAY | CUTOUT | REAR VIEW CONNECTIONS | FRONT VIEW ADJUSTMENTS |
|----------------------|--------|-----------------------|------------------------|
| REMOTE DISPLAY W/BCD | 23 | 19 | 15 |

SEE FIGURES ON PAGE 44. SOME CONTROLS SHOWN IN THE DRAWINGS ARE NOT AVAILABLE ON ALL UNITS.