

The OMEGA **DP25B** series Digital Panel Meters feature the biggest brightest display of any 1/8 DIN panel meter. The user can select the display color: **RED ,AMBER, or GREEN.**

PANEL METERS with Relays and Analog Output

The popular **DP25B** series are accurate, economical, and easy to program. The **DP25B** series feature a big bright four digit display plus optional dual 5 amp Form C (SPDT) relays and a choice of isolated or non-isolated analog output. The scalable 0-10 Vdc, 0-20mA, or 4-20 mA analog output can be used as a retransmission of the display value or as a proportional control output as required. The microprocessor based **DP25B** series includes instruments for Thermocouple, Process (DC voltage and current), and Strain Gage.

SPECIFICATIONS

Input Ranges: 0-100 mV, ± 50 mV, 0-10 V, ± 5 V, 0-20 mA, 4-20 mA

Isolation: Dielectric strength to 2500V transient per 3mm spacing based on EN 61010 for 260 Vrms or DC working voltage

NMR: 60 dB

CMR: 120 dB

Input Protection: Voltage Input = 120 Vrms max; Current Input = 100 mA max

Input Impedance: 100 Meg ohms for 100 mV or ± 50 mV input range; 1 Meg ohm for 10 V or ± 5 V input range; 5 ohms for 20 mA current input range

Display: 4-digit, LED 9-segment, 21 mm (0.83"), (**Red, Green, Amber**)

Analog-to-digital technique: Dual slope

Internal resolution: 15 bits

Read rate: 3/sec

Polarity: Automatic

Max error process: $\pm 0.03\%$ of reading, ± 1 count

Span tempco: 50 ppm/ $^{\circ}\text{C}$

Step response: 1 sec

Warm-up to rated accuracy: 30 min

Load Regulation: 1.1%

Line Regulation: 0.02% per Vac

Analog output (optional): 0-10 V, 4-20 mA or 0-20 mA; may be assigned to a display range or to setpoint #1, when used as a proportional control output

Operating temperature: 0 to 50°C (32 to 122°F)

Storage temperature: -40 to 85°C (-40 to 184°F)

Relative humidity: 90% at 40°C (104°F) (non-condensing)

Panel cutout: 1/8 DIN, 45 x 92 mm (1.78" x 3.62")

Weight: 575 g (1.27 lb)

AC Power Unit:

Power: 115 Vac or 230 Vac $\pm 10\%$; 50-60 Hz, 11.0 watts max.

Excitation: 24 V @ 25 mA or 12 V @ 50 mA or 10 V @ 120 mA or 5 V @ 60 mA

DC Power Unit:

Power: 12-32 Vdc; 8.0 watts max.

Excitation: 24 V @ 25 mA or 12 V, 10 V, 5 V @ 35 mA (For Low/Medium Brightness), For High Brightness use external excitation to power sensors