

ECONOMICAL STRAIN INDICATORS

WITH BUILT-IN SENSOR EXCITATION



DP25B-S



- ✓ NEMA 4 (IP65) Front Panel
- ✓ 4-Digit Display, -1999 to 9999 counts
- ✓ Excitation Supply, Front Panel Tare, and Peak Hold Standard
- ✓ Accepts Voltage, Current, or Millivolt Inputs
- ✓ Easily Scaled to Display Readings in Engineering Units

The DP25B-S is a low-cost digital panel meter for use with voltage, current, or bridge-type transducers. For bridge sensors, the DP25B-S has a ratiometric input to correct for variations in excitation voltage. Standard features include a front-panel tare button and a peak hold feature. Options include dual 5 A alarm relays and a scalable analog output configurable for 0 to 10 V or 4 to 20 mA.



DP25B-S shown actual size.

SPECIFICATIONS

Accuracy (@ 25°C/77°F): $\pm 0.03\%$ of reading, ± 1 count
Operating Temp: 0 to 50°C (32 to 122°F)
Span Temp Coefficient: ± 50 ppm/°C
Storage Temperature: -40 to 85°C (-40 to 185°F)
Relative Humidity: 90% at 40°C (104°F), non-condensing
CMR: 120 dB
NMR: 60 dB
Isolation: Dielectric strength to 2500 V transient per 3 mm spacing based on EN 61010 for 260 Vrms or DC working voltage
Display: 4-digit, 9-segment, 21 mm (0.83") high, red, amber or green LED (programmable)

Display Range: -1999 to 9999 counts

Conversion Rate: 3 per second

Step Response: 1 to 2 seconds

Relays: Dual 250 Vac, 5 A, SPDT or 30 Vdc

Analog Output: Scalable 0 to 10 V or 4 to 20 mA

POWER REQUIREMENTS

Voltage: 115 (standard) or 230 Vac (optional), $\pm 10\%$

Frequency: 50/60 Hz

Power Consumption: 9.5 to 11.5 W

MECHANICAL SPECIFICATIONS WITH AI-R OPTION

Bezel: 96 W x 48 H x 20 mm D (3.78 x 1.89 x 0.80")

Panel Cutout: 92 W x 45 mm H (3.622 x 1.772")

Depth Behind Panel: 152 mm (6.0")

Select Your Color!

Program to display in **RED**, **AMBER**, or **GREEN**.

The Omega™ DP25B Series meters and controllers have totally programmable color displays—for **RED**, **AMBER**, or **GREEN**.



PATENTED

Covered by U.S. and International patents and pending applications

To Order

MODEL NO.	INPUT RANGES*	EXCITATION
DP25B-S	0 to 100 mV, ± 50 mV, 0 to 10 V, ± 5 V, 0 to 20 mA, 4 to 20 mA	24 V @ 25 mA or 12 V @ 50 mA, 5 V @ 60 mA or 10 V @ 120 mA

* Input ranges and excitation are user selectable.

Ordering Example: DP25B-S-AR, 115 Vac powered digital strain meter with analog and relay output options.

Options (Not Field Installable)

Order Suffix	Add'l Description
-230	230 Vac power
-DC10/32	10 to 32 Vdc power
-DC26/32	26 to 56 Vdc power
-A	Scalable analog output
-R	Dual 5 A alarm relays
-AI-R	Isolated analog output and dual 5 A alarm relays