

# ECONOMICAL STRAIN INDICATORS

## WITH BUILT-IN SENSOR EXCITATION



### DP25B-S



DP25B-S shown actual size.

- ✓ 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.

#### SPECIFICATIONS

**Accuracy (@ 25°C/77°F):** ±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), ±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,<br>0 to 10 V, ±5 V, 0 to 20 mA,<br>4 to 20 mA | 24 V @ 25 mA or<br>12 V @ 50 mA,<br>5 V @ 60 mA or<br>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 |