

# ECONOMICAL STRAIN INDICATORS WITH BUILT-IN SENSOR EXCITATION



DP25B-S shown  
actual size.

## 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.

### 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

### 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

### 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

**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")