

ECONOMICAL STRAIN INDICATORS WITH BUILT-IN SENSOR EXCITATION

TRODEKS®



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

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")

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