# Weigh Scale Panel Meters

**NTEP Approved per HB44** 







- Extended 5-Year Warranty at No Extra Charge
- NTEP Approved for Class III and IIIL/Up to 10,000 Divisions
- ✓ 5 Point Linearization
- Scales in Any Engineering Unit kg, oz, gram, lb, etc....
- Character Units of Measure Display
- Min., Max. and Tare **Functions**
- ✓ True 6-Wire Bridge Connection
- Net/Gross Button
- Zero Error Correction
- Fixed Tare Capability



The DP41-W is a highly accurate. stable weigh meter with an IP65 (NEMA 4), splash-proof key pad. The meter has adjustable filtering for achieving rock solid readings in critical applications. This powerful meter is all self-contained in a traditional 1/2 DIN case design, and can be used as either a weigh meter, a normal two point scalable meter or a 5 point scalable meter. The 5 point scalable option lends itself to varying cross sections on liquid level tank measurements, for improving nonlinear sensor characteristics and a host of other applications. All of the DP41-W's options are field installable.

#### SPECIFICATIONS

Accuracy: 0.005% Rdg Input: ±50 mV, ± 500 mV, ± 5 V, ± 50 V, 100 mV, 1 V, 10 V, 100 V, 4-20 mA, 0-20 mÁ

Excitation: ac powered models: Adj 1.5-11 Vdc (5 Vdc @ 60 mA, 10 Vdc @ 30 mA or 24 Vdc @ 25 mA

#### dc powered models:

Adj 1. 5-11 Vdc (5 Vdc @ 60 mA, 10 Vdc @ 120 mA or 24 Vdc @ 30 mA NTEP Approvals: COC #92-152 C III & IIIL-10,000 divisions max Operating Temperature: 0 to 50°C (32 to 122°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Temp. Coefficient: 20 PPM/°C Humidity: 95% @ 40°C, non condensing Display: 6 digit, red LED, 0.56 in high Display Range: -99999 to 999999

# **DP41-W Weigh Meter**

Connections: Input screw terminals; remote contact pin terminals External Features: Tare, reset tare, display hold Outputs: 4 open collectors, 150 mA @ 1 V sink, 30 V max Step Response: 36 ms for 63%. 145 ms for 98% 218 ms for 99.8% Filtering: Adj. to 13 Hz **RS-232** Communications (optional): 300/1200/2400/ 4800/9600/19.2 k baud; RJ11 4-wire connection: complete program setup and

complete program setup and message display capability; programmable to transmit current display, alarm status, min/max, actual measured input value (not scaled) and status.

RS-485 Communications (optional): 300/1200/2400/4800/9600/19.2 k baud; RJ11 6-wire connection; addressable from 0 to 199

Analogue Output (optional): Selectable 0-5 Vdc, 1-5 Vdc, 0-10 Vdc 0-20 mA, 4-20 mA; voltages @ 20 mA, current @ 12 Vdc

POWER REQUIREMENTS

Voltage: 230 Vac @ 50-60 Hz (115 Vac optional)

#### Power Consumption: 10 watts max MECHANICAL SPECIFICATIONS Dimensions: 96 W x 48 H x 156 mm D (3.78 W x 1.89 H x 6.13 in D) Panel Cutout: ½ DIN, 92 W x 45 mm H (3.62 W x 1.77 in H) Weight: 570 g (1.27 lb)

To Order (Specify Model Number) MODEL NO. PRICE DESCRIPTION DP41-W-230 £399 Weigh meter with red display DP41-W-GN-230 399 Weigh meter with green display To order 115 Vac power option, remove suffix "-230" from model number; no extra charge. SUFFIX MODEL NO. PRICE DESCRIPTION **DP40-A** £74 Scalable current or voltage analogue output -A -B **DP40-B** 74 Isolated BCD output -R DP40-R 50 Dual SPDT mechanical relays 74 -S2 **DP40-S2** Isolated RS-232 communications, RJ11 termination -S4 **DP40-S4** 74 Isolated RS-485 communications, RJ12 termination **ACCESSORIES FOR COMPUTER COMMUNICATIONS** MODEL NO. DESCRIPTION PRICE **DP40-9SC2** £20.00 RS-232 9 D pin converter from RJ11 phone jack DP40-25SC2 20.00 RS-232 25 D pin converter from RJ11 phone jack RS-485 9 D pin converter from RJ12 phone jack **DP40-9SC4** 20.00 DP40-25SC4 20.00 RS-485 25 D pin converter from RJ12 phone jack

**Note:** Order either "-**B**" or "-**R**" options; both are not available in one unit. Order either "-**S**2" or "-**S**4" options; both are not available in one unit. Use an accessory for proper termination to a computer when ordering -**S**2 or -**S**4. Comes with complete operator's manual.

Ordering Example: DP41-W-S2, weigh meter, 115 Vac powered, with RS-232 computer communications, + DP40-25SC2, 25 D pin connector, £399 + 74 + 20.00= £493.00

MDS41-W (Benchtop Version of DP41-W), £515 see www,omega.co.uk shown with LC2-12X12-30 Benchtop Platform Scale, £432 see www,omega.co.uk S

🖂 sales@omega.co.uk

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CONT

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