

LEGAL-FOR-TRADE WEIGH SCALE

PANEL METERS

NTEP APPROVED PER HB44



DP41-W

DP41-W with LC101 load cell, shown larger than actual size.



Standard

COC #92-152

- ✓ 5-Year Warranty
- ✓ NTEP Approved for Class III and III L/Up to 10,000 Divisions
- ✓ 5-Point Linearization
- ✓ Scales in Any Engineering Unit (lb, kg, oz, etc.)
- ✓ Display Shows Units Measure
- ✓ Min, Max, and Tare Functions
- ✓ 6-Wire Bridge Connection
- ✓ Net/Gross Button
- ✓ Zero Error Correction
- ✓ Fixed Tare Capability

The DP41-W is a highly accurate, stable weighmeter with a NEMA 4 (IP65) splashproof keypad. With its adjustable filtering feature, this powerful meter achieves rock-solid readings in critical applications. Self-contained in a traditional 1/8 DIN case design, it can be used as a weighmeter, a standard 2-point scalable meter, or a 5-point scalable meter. Possible applications for the 5-point scalable meter include measuring liquid levels of tanks and improving non-linear sensor characteristics.

SPECIFICATIONS

Accuracy: 0.005% rdg, ± 1 count
Input: ± 50 mV, ± 500 mV, ± 5 V, ± 50 V, 100 mV, 1V, 10V, 100V, 4 to 20 mA, 0 to 20 mA

Excitation:

AC-Powered Models:

Adj 1.5 to 11 Vdc (5 Vdc @ 60 mA, 10 Vdc @ 30 mA or 24 Vdc @ 25 mA)

DC-Powered Models:

Adj 1.5 to 11 Vdc (5 Vdc @ 60 mA, 10 Vdc @ 120 mA or 24 Vdc @ 30 mA)

NTEP Approvals: COC #92-152 Class III and III L—to 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

Relative Humidity: 95% @ 40°C (104°F), non-condensing

Display: 6-digit, red LED, 13.8 mm (0.54") high

Display Range: -199999 to 999999

Connections: Input screw terminals; remote-contact pin terminals

External Features: Tare, reset tare, display hold



MDS41-W, benchtop version of DP41-W, shown with LSC6400-1818-1K benchtop platform scale

Outputs: 4 open collectors; 150 mA @ 1V sink, 30V maximum
Step Response: 36 ms for 63%, 145 ms for 98%, 218 ms for 99.8%

Filtering: Adj to 13 Hz

RS232 Communications (Optional): 300/1200/2400/4800/9600/19.2K baud; RJ11 4-wire connection; complete program setup and message display capability; programmable to transmit current display, alarm status, min/max, actual measured input value (not scaled) and status

RS485 Communications (Optional): 300/1200/2400/4800/9600/19.2K baud; RJ12 6-wire connection; addressable from 0 to 199

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

POWER REQUIREMENTS

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

Power Consumption: 10 W maximum

MECHANICAL SPECIFICATIONS

Dimensions: 48 H x 96 W x 156 mm D (1.89 x 3.78 x 6.13")

Panel Cutout: 1/2 DIN, 45 mm H x 92 W (1.77 x 3.62")

Weight: 600 g (1.316 lb)

To Order

MODEL NO.	DESCRIPTION	
DP41-W	Panel mount weigh meter with red display	
MDS41-W	Benchtop weigh meter with red display	
SUFFIX	MODEL NO.	DESCRIPTION
-A3	DP40-A3	Scalable current or voltage analog output
-R	DP40-R	Dual SPDT mechanical relays
-S2	DP40-S24	Isolated RS232 communications, RJ11 termination
-S4	DP40-S24	Isolated RS485 communications, RJ12 termination
ACCESSORIES FOR COMPUTER COMMUNICATIONS		
MODEL NO.	DESCRIPTION	
DP40-9SC2	RS232 9 D pin converter from RJ11 phone jack	
DP40-25SC2	RS232 25 D pin converter from RJ11 phone jack	
DP40-9SC4	RS485 9 D pin converter from RJ12 phone jack	
DP40-25SC4	RS485 25 D pin converter from RJ12 phone jack	

Note: Order either "-S2" or "-S4" option. Use an accessory for proper termination to a computer. Comes complete with operator's manual.

To order with green display, add suffix "-GN" to model number, no additional cost.

To order 230 Vac power option, add suffix "-230" to model number, no additional cost.

Ordering Example: DP41-W-S2, weigh meter with RS232 computer communications, DP40-25SC2, 25 D pin connector.