

# LEGAL-FOR-TRADE WEIGH SCALE

## PANEL METERS

### NTEP APPROVED PER HB44



## DP41-W

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

**Product Discontinued**

- ✓ 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,  $\pm 1$  count  
**Input:**  $\pm 50$  mV,  $\pm 500$  mV,  $\pm 5$ V,  $\pm 50$ 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.