

DUAL-INPUT PROCESS METERS WITH MATH FUNCTIONS FOR PROCESS VOLTAGE OR CURRENT INPUTS

DP7800



DUAL INPUTS!



- ✓ Dual Inputs with Programmable Math Functions
- ✓ Programmable Ranges: ± 200 mV to ± 200 V and 4 to 20 mA
- ✓ Digital Tare (Zero) Up to 50% of Span
- ✓ Easily Programmed Span: 1000 to 30,000 Counts
- ✓ Programming and Calibration from Front Panel
- ✓ 5-Digit, 14 mm (0.56") Red LED Display with Negative Indications
- ✓ 2 Setpoints with Relay Closures (Standard)
- ✓ NEMA 4 (IP65) Rated Bezel with Panel Gasket Seal
- ✓ Heavy-Duty Aluminum Case, 101 mm (4") Behind the Panel
- ✓ 16-Bit A/D Converter

DP7800, shown actual size, with 2 PX41 pressure transducers.

Display: 5-digit, 7-segment, 14.3 mm (0.56") high LED

Limit Outputs: Standard dual form "A" relays rated 0.25 A @ 28V

Analog Output (Optional): 0 to 10 Vdc @ 2.5 mV resolution; 0V and 10V points are programmable via front-panel switches; maximum drive capability ± 2 mA; the 4 mA and 20 mA points are programmable via front-panel switches; 4 to 20 mA output, maximum load 600 Ω

CMV: 1400 Vp (AC or DC) between analog output ground and AC power line ground

Serial Interface (Optional): ASCII RS232 or RS485 compatible; format: 1 start bit, 8 data bits, 1 stop bit and no parity bits

Baud Rates: 9600, 4800, 2400, 1200, 600, 300, 150 and 75—programmable from the front panel

Operating Temperature: -20 to 60°C (-4 to 140°F)

Storage Temperature: -25 to 85°C (-12 to 185°F)

Relative Humidity: 0 to 90%, non-condensing

Power:

- Standard:** 115 Vac (15 to 10%) @ 50 mA (47 to 500 Hz)
- Optional:** 230 Vac (15 to 10%) @ 25 mA (47 to 500 Hz)
- Optional:** 9 to 18 Vdc or 18 to 36 Vdc

Dimensions: 50 H x 97 W x 102 mm D (1.97 x 3.80 x 4.0"); rear connectors add 0.5" to depth

Panel Cutout: 45 H x 92 mm W (1.77 x 3.58"), $\frac{1}{8}$ DIN

Weight: 454 g (1 lb)

The DP7800 accepts 2 inputs simultaneously and can perform math functions: $A - B$, $A + B$, $A \times B$, and $A \div B$.

SPECIFICATIONS

Accuracy: $\pm 0.01\%$ of reading ± 1 count of LSD

Range Programming: Solderless jumpers on rear of unit; select 200 mV, ± 2 V, ± 20 V, ± 200 V or 4 to 20 mA

Conversion Rate: 3/s

OPTIONS (Additional Cost)

SUFFIX	DESCRIPTION
-S2	ASCII RS232 serial interface
-S4	ASCII RS485 serial interface
-AMA	Analog output 4 to 20 mA
-A10	Analog output 0 to 10 Vdc
-LED	High-brightness LED display
-DC9/18	9 to 18 Vdc power @ 600 mA
-DC18/36	18 to 36 Vdc power @ 500 mA
-230VAC	230 Vac power, 50 to 400 Hz

To Order

MODEL NO.	DESCRIPTION
DP7800	Dual-input voltmeter

Comes complete with operator's manual.

Ordering Example: DP7800-S2, dual-input voltmeter with RS232 serial communications.