

1/8 DIN Economical Digital Panel Meters

For Process, Voltage, Current and Frequency

Panel Punches Available, Visit omega.com/panelpunches

Product Discontinued

Wireless Conversion Receivers Available. For Details Visit omega.com/mwtc-rec6

as of 4/13/2018

DP450



DP450-VDC shown smaller than actual size.

- ✓ 1/8 DIN Size
- ✓ 3 1/2 Digit Display
- ✓ Large 14.2 mm (0.56") LED Display
- ✓ Red Display
- ✓ Jumper-Selectable Ranges
- ✓ Engineering and Unit Labels Included: V, mV, μ A, Lbs, PSI, $^{\circ}$ C, A, mA, Hz, Kg, %, $^{\circ}$ F, Vdc, Vac, Amps, ppm, Ω , VA, W, kW, gal, gal/m, oz, Btu, K, %RH

Wide Range of Input Signals

- ✓ DC Voltage
- ✓ AC Voltage
- ✓ DC Current
- ✓ High DC Current
- ✓ High AC Current
- ✓ Scalable Process
- ✓ Frequency

Options

- ✓ 220 Vac Power
- ✓ 5 A Dual Alarm Relays—2 LED's Indicate "Hi" and "Lo" Alarms
- ✓ 10 Vdc Excitation Power Supply

The DP450 Series digital panel meters are suitable for a wide range of display applications. Designed as an economical solution, they offer ruggedness, reliability with

3 1/2-digit resolution for many current, voltage, frequency and process applications. Supplied in a standard 1/8 DIN package, a full range of inputs can be measured simply by selecting the proper externally accessible terminals located at the rear of the unit. The resolution can be changed by moving the jumpers behind the detachable face plate. Bright red 14.2 mm H (0.56") LED characters are easy to read. Standard instrument power is 115 Vac. Optional 220 Vac is available. Dual alarm relays can be configured as one high and low. Engineering unit labels are supplied to indicate measured value. This series consists of seven models. They are DC voltage, AC voltage, DC current, high-AC current, high-DC current, scalable process and frequency. The DP450-HDCC model can be used with 60 mV, 100 mV or 150 mV shunts. The DP450-HACC can be used with one or 5 A current transformers such as the CT Series.

Specifications

Accuracy: 0.5% FS

Stability with Temperature: \pm 100 ppm/ $^{\circ}$ C maximum

Noise Rejection:

NMRR: <40 dB, 50/60 Hz

CMRR: <130 dB with 250 Ω unbalanced typical

Input Power Protection:

Fuseable resistors

Measuring Mode: Dual slope

Input Mode: Single-ended with auto-zero

Display: 3 1/2 digit, 7-segment red/orange LED, 14.2 mm H (0.56")

Optional Dual Alarm: Two 5 A @ 120 Vac (non-inductive) form "C" relays

Optional Excitation Power Supply: 10 Vdc (\pm 5%), 30 mA

Environmental: 0 to 50 $^{\circ}$ C, <85% RH non-condensing

Case Construction: One-piece black ABS plastic

Dimensions:

Case: 1/8 DIN; 4.0 x 9.0 x 10.9 cm (1.57 x 3.54 x 4.56")

Bezel: 4.8 x 9.6 cm (1.89 x 3.78")

Panel Cutout: 4.5 x 9.2 cm (1.77 x 3.62")

Weight: 454 g (1 lb)

Power: 115 Vac \pm 10%, 50/60 Hz, 220 Vac \pm 10% (optional)

Warranty: 2 years



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

DP450 Inputs and Ranges

Model Number	Input	Range	Accuracy	Resolution
DP450-VDC	DC Volts	0 to ± 199.9 mV	0.5%	0.1 mV
		0 to ± 1.999 V	0.5%	1 mV
		0 to ± 19.99 V	0.5%	10 mV
		0 to ± 199.9 V	0.5%	0.1V
		0 to ± 600 V	0.5%	1V
DP450-VAC	AC Volts	0 to 199.9 mV	0.5%	0.1 mV
		0 to 1.999V	0.5%	1 mV
		0 to 19.99V	0.5%	10 mV
		0 to 199.9V	0.5%	0.1V
		0 to 600V	0.5%	1V
DP450-DCC	DC Current	0 to ± 1.999 mA	0.5%	1 μ A
		0 to ± 19.99 mA	0.5%	10 μ A
		0 to ± 199.9 mA	0.5%	100 μ A
		0 to ± 1.999 A	0.5%	1 mA
		0 to ± 5.000 A	0.5%	10 mA
DP450-HDCC (Works with 60 mV, 100 mV, 150 mV; sold separately)	High DC Current	0 to ± 50 A	0.5%	0.1 A
		0 to ± 100 A	0.5%	0.1 A
		0 to ± 200 A	0.5%	0.1 A
		0 to ± 500 A	0.5%	1 A
		0 to ± 1000 A	0.5%	1 A
		0 to ± 1500 A	0.5%	1 A
		0 to ± 2000 A	0.5%	1 A
DP450-HACC (Works with 1 or 5 A current transformers, sold separately)	High AC Current	0 to 50 A	0.5%	0.1 A
		0 to 100 A	0.5%	0.1 A
		0 to 200 A	0.5%	0.1 A
		0 to 500 A	0.5%	1 A
		0 to 1000 A	0.5%	1 A
		0 to 1500 A	0.5%	1 A
		0 to 2000 A	0.5%	1 A
DP450-E	Process	0 to 20 mA, 4 to 20 mA	0.5%	
		0 to 5 Vdc, 1 to 5 Vdc	0.5%	1 count of 1999 counts
		0 to 10 Vdc	0.5%	
DP450-F*	Frequency	0 to 1 kHz	0.5%	1 Hz

* Input voltage: 199.9 mV to 600 Vac.



To Order Visit omega.com/dp450 for Pricing and Details

Model Number	Description
DP450-VDC	DC volt meter
DP450-VAC	AC volt meter
DP450-DCC	DC current meter
DP450-E	Process meter
DP450-HACC	High AC current meter
DP450-HDCC	High DC current meter
DP450-F	Frequency meter

Alarm and Power Options

Order Suffix	Description
-A2	5 A dual alarm output
-XPS	10 Vdc excitation power supply
-220VAC	220 Vac power

Comes complete with operator's manual.

Ordering Examples: DP450-E-A2-220VAC, process meter with red display, dual relay output and 220 Vac power.

OCW-3 OMEGACARESM extends standard 2-year warranty to a total of 5 years.

DP450-F, frequency meter with red display.