

# 1/8 DIN Process Meter

**MONOGRAM™  
SERIES**

DP24-E  
**\$195**



Panel punches available, visit [omega.com/panelpunches](http://omega.com/panelpunches)

Optional green display (no additional charge), removable buttonless bezel, \$15.

DP24-E, \$195, shown smaller than actual size.



- ✓ 5-Year Warranty
- ✓ User Friendly
- ✓ 24 Vdc or 10 Vdc for Transducer Excitation
- ✓ Easily Scaled from -1999 to 9999 in Any Engineering Unit
- ✓ Front-Panel Min/Max and Tare Functions
- ✓ External Display Hold and Tare
- ✓ Full-Size 14.2 mm (0.56") LED Display
- ✓ Exceeds High Standards for Immunity and Emissions

The DP24 Series comprises economical, user-friendly panel meters that can be scaled without an electronic calibrator. The DP24-E accepts voltage (0 to 5, 1 to 5, and 0 to 10 Vdc) or current (4 to 20 mA) transducers. After scaling, the front keypad can be locked out to avoid unauthorized changes and an optional bezel without "buttonholes" can be snapped into place.

### Specifications

**Accuracy:** ±0.05 rdg + 1 LSD @ 25°C (77°F)

**Input (DP24-E):** 0 to 5 Vdc, 1 to 5 Vdc or 0 to 10 Vdc @ 4 to 20 mA (bidirectional)

**Operating Temp:** 0 to 50°C (32 to 122°F)

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

**Temp Coefficient:** 50 ppm/°C

**Display:** 4-digit, red or green LED, 14.2 mm H (0.56")

**Display Range:** -1999 to 9999

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

**Connections:** Screw terminals

**External Features:** Tare, reset tare, display hold

**Power Requirements**

**Voltage:** 115 Vac ±15% standard (230 Vac or 9 to 32 Vdc optional)

**Frequency:** 50 or 60 Hz

**Power Consumption:** 2.5 W max

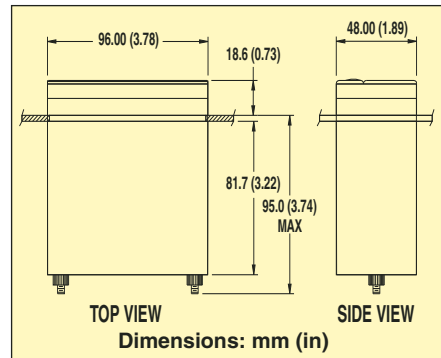
**Mechanical Specifications**

**Dimensions:** 96 W x 48 H x 104 mm D (3.78 x 1.89 x 4.10")

**Panel Cutout:** 1/8 DIN, 92 W x 45 mm H (3.62 x 1.77")

**Depth Behind Panel:** 100 mm (3.94")

**Weight:** 312 g (11 oz)



**AVAILABLE FOR FAST DELIVERY!**

**CE** The following LVD (Low Voltage Directive/Safety) requirements have been met to comply with EN 61010-1, 1993 (electrical equipment for measurement, control and laboratory use)

1. Pollution Degree 2 2. Installation Category II 3. Double Insulation

DP24-T/DP24-E complies with the following EMC Immunity Standards as tested per EN 50082-2, 1995 (industrial environment)

Phenomena	Test Specification	Basic Standard
Electrostatic Discharge	+/- 4 kV contact discharge +/- 8 kV air discharge	IEC 1000-4-2 Perf. Criteria B
Radio Frequency Electromagnetic Field	27 - 1000 MHz 10 V/m 80% AM (1 KHz)	IEC 1000-4-3 Perf. Criteria A
Fast Transients	+/- 2 kV (ac mains) +/- 1 kV (dc, signal I/O) 5/50 ns Tr/Th, 5 KHz rept. Freq.	IEC 1000-4-4 Perf. Criteria B
Radio Frequency Conducted	0.15 - 80 MHz 10 V/m 80% AM (1 KHz)	IEC 1000-4-6 Perf. Criteria A
Surges	+/- 2 kV line to earth +/- 1 kV line to line 1.2/50 (8/20) $\approx$ s Tr/Th	IEC 1000-4-5 Perf. Criteria B
Voltage Dips	30% reduction 10 ms 60% reduction 100 ms	IEC 1000-4-11 Perf. Criteria B
Voltage Interruption	>95% reduction 5000 ms	IEC 1000-4-11 Perf. Criteria C

DP24-T/DP24-E comply with the following EMC Emission Standards as tested per EN 50081-1, 1997 (Residential, Commercial and Light Industrial)

Phenomena	Frequency Range	Limits	Basic Standard
Radiated Emission	30 - 230 MHz 230 - 1000 MHz	30 dB $\approx$ V/m at 10 m 37 dB $\approx$ V/m at 10 m quasi peak	CISPR 22 Class B
Conducted Emission	0.15-0.5 MHz 0.5-5 MHz 5-30 MHz	66-56 dB $\approx$ V q. peak 56 dB $\approx$ V quasi peak 60 dB $\approx$ V quasi peak	CISPR 22 Class B

### To Order (Specify Model Number)

Model No.	Price	Description
DP24-E	\$195	115 Vac meter

### Power and Display Options

Suffix	Price	Description
-GN	N/C	Green LED display
-230	N/C	230 Vac power
-DC	\$95	9 to 32 Vdc isolated power
SPC4	30	NEMA 4 (IP65) splashproof lens with screw clamp
SPC18	30	NEMA 4 (IP65) splashproof lens with spring clip
BBZL-T	15	Removable buttonless bezel

### Accessory

Model No.	Price	Description
DPP-5	\$525	1/8 DIN panel punch

Comes complete with operator's manual.

**Ordering Example:** DP24-E-GN-DC, process monitor with green LED display and 9 to 32 Vdc power, \$195 + 95 = \$290.



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