

# ECONOMICAL DIGITAL TRANSDUCER INDICATORS FOR STRAIN GAGE OR PROCESS INPUTS



## DP302 Series



DP3002-S digital indicator, shown actual size, with LCGD-250 load cell. Visit OMEGA for complete details.

- ✓ 3½ or 4½ Digit Models
- ✓ Models Available for Millivolts, Voltage, or Current Output Transducers
- ✓ Easily Scaled to Display Readings in Engineering Units
- ✓ 3½ or 4½ Digit Models
- ✓ AC Power Standard; DC Power Optional
- ✓ RoHS 2 Compliant

The DP302 and DP3002 low-cost digital panel meters are designed for applications in which only indication is required. The DP302 models have a 3½ digit display that can read ±1999 counts. The DP3002 models have a 4½ digit display and can read ±19999 counts. Both models can easily be scaled to display engineering units.

### SPECIFICATIONS

#### Accuracy:

DP302: ±0.05% of span + 1 count  
DP3002: ±0.01 % of span + 2 counts

**Operating Temp:** 0 to 60°C (32 to 140°F)

**Span Temp Coefficient:** ±0.01% of span/°C

**Zero Temp Coefficient:**  
DP302: ±0.1 count/°C  
DP3002: ±0.5 count/°C

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

**Humidity:** 95% RH to 40°C (104°F) (non-condensing)

**CMRR:** 120 dB from DC to 60 Hz

**Common Mode Voltage:** 1500 Vp per HV test, 354 Vp per IEC spacing

**NMRR:** 56 dB at 50/60 Hz

**Display Type:** 7-segment, red LED

#### Display Digits:

DP302: 3½ (±1999 counts)  
DP3002: 4½ (±19999 counts)

**Digit Height:** 14.2 mm (0.56")

**Conversion Rate:** 2.5/s

#### Power Requirements

**AC Models:** 115 Vac ±15%, 230 Vac ±15% (optional)

**Frequency Range:** 47 to 400 Hz

**DC Models:** 9 to 32 Vdc (300V isolation)

**Power Consumption:** 2.4 W (3.7 W with excitation)

**Excitation:** Adjustable 10 to 24 Vdc @ 30 mA ("E" and "S" models only)

#### Mechanical Specifications

**Bezel:** 96 W x 48 H x 5.1 mm D (3.78 x 1.89 x 0.20")

**Depth Behind Bezel:** 104 mm (4.09")

**Panel Cutout:** 92 W x 45 mm H (3.62 x 1.77")

**Weight:** 425 g (15 oz)

### To Order

MODEL NO.	DIGITS	INPUT RANGES*	EXCITATION
DP302-P	3½	4 to 20 mA, 1 to 5 Vdc, 0 to 10 Vdc	None
DP302-E	3½	4 to 20 mA, 1 to 5 Vdc, 0 to 10 Vdc	10 to 24 Vdc
DP302-S	3½	±20 mVdc, 200 mVdc, 2 Vdc	10 to 24 Vdc
DP3002-P	4½	4 to 20 mA, 1 to 5 Vdc, 0 to 10 Vdc	None
DP3002-E	4½	4 to 20 mA, 1 to 5 Vdc, 0 to 10 Vdc	10 to 24 Vdc
DP3002-S	4½	±20 mVdc, 200 mVdc, 2 Vdc	10 to 24 Vdc

\* Input ranges selected by internal jumpers.

For 230 Vac power, add suffix "-230", no extra charge. For 9 to 32 Vdc power, add suffix "-DC" and add cost to price.

Ordering Example: DP3002-P, 4½ digit display process panel meter.