

ISOLATED SIGNAL CONDITIONERS WITH TRANSDUCER POWER UP TO 120 mA FOR STRAIN GAGES, LOAD CELLS, AND TRANSDUCERS

DMD-470 Series

Starts at
\$440



- ✓ 700V I/O Isolation
- ✓ 1100V Line Isolation
- ✓ Power for Four 350 Ω Load Cells, Fixed 10V or Variable 5 to 10 Vdc
- ✓ Adjustable Gain and Offset
- ✓ Large Tare Offset Adjustment
- ✓ 6-Wire Bridge Connections
- ✓ Voltage or Current Output Models

DMD-470 Series bridge amplifiers are AC-powered signal conditioning modules with triple-isolated voltage or current outputs for load cells, bridge-type sensors, and strain gages. Both models have dual zero/tare functions. Zero is used for normal bridge balance, and the tare feature allows up to 68% of the input to be offset while still achieving full output span. The DMD-475 has an isolated voltage output; the DMD-476 is similar but has an isolated 4 to 20 mA output. Both models have input ranges of 5 to 50 mV for a full scale output (0 to 10V or 4 to 20 mA).

SPECIFICATIONS

Common

Power: 115 Vac \pm 10 Vac standard; 220 Vac \pm 10% 50/60 Hz or 10 to 36 Vdc @ 0.35 to 0.1A optional

Isolation:

AC Line: 1100 Vrms, 60 pF
Input to Output: 700 Vdc and 60 pF

Operating Temperature:

-25 to 55°C (-13 to 131°F)

Storage Temperature:

-25 to 85°C (-13 to 185°F)

Weight:

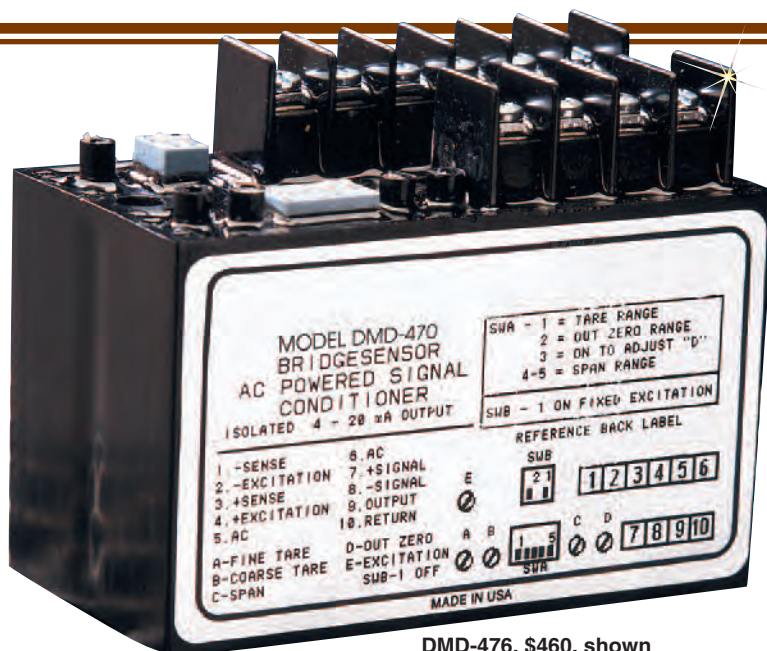
510 g (18 oz)

Size:

96 L x 51 W x 73 mm H (3.75 x 2 x 2.87")

Bridge Supply

Voltage Range: 5 to 10 Vdc



DMD-476, \$460, shown smaller than actual size.

Current Output: 120 mA max
Line and Load Regulation: 0.02% max
Output Noise: 1 mVrms max (120 Hz)
Temp Coefficient: 60 ppm @ 10V, 100 ppm max

DMD-475 (Voltage Output)

Gain Range: 200 to 2000
Input Range for 10V Output: 5 to 50 mV
Linearity: \pm 0.005% FS
Temperature Stability: 0.005%/°C
Tare Adjustment: -3 to 25 mV
Input Resistance: 1000 MΩ
Output Zero Adjust: 0 to 2V
Output Range: -3 to 10 Vdc
Output Current: 5 mA maximum
Dynamic Response: DC to -3 dB = 10 Hz, 2 pole
Response Time: 10 to 90% = 35 ms

DMD-476 (4 to 20 mA Transmitter)

Output: 4 to 20 mA, 0 to 20 mA
Input Range for 16 mA Span: 5 mV min, 50 mV max
Linearity: \pm 0.01%
Zero Adjust: 0 to \pm 12 mA
Temperature Stability: 0.005%/°C
Tare Adjustment: -3 to 25 mV equals 80% of 3 mV/V cell
Input Impedance: 1000 MΩ
Common-Mode Rejection: 100 dB
Common-Mode Input Voltage: 5V
Output Zero Adjust: 0 or 4 mA
Output Range: 4 to 20 mA or 0 to 20 mA
Compliance Voltage: -1 to 20V
Dynamic Response: DC to -3 dB = 10 Hz, 2 pole
Response Time: 10 to 90% = 35 ms

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
DMD-475	\$460	Voltage output (0 to 10 Vdc), 120 Vac power
DMD-475-220V	460	220 Vac powered DMD-475
DMD-476	460	Current output (4 to 20 mA), 120 Vac power
DMD-476-220V	460	220 Vac powered DMD-476
DMD-476-DC	440	10 to 36 Vdc powered DMD-476
POWER CORD-SE	7	Power cord with stripped end termination

Comes complete with operator's manual.

Ordering Examples: DMD-475, isolated voltage output (0 to 10 Vdc) amplifier/signal conditioner module, \$460.

DMD-476, isolated current output (4 to 20 mA) amplifier/signal conditioner module, \$460.

Recommended Reference Book: Rotordynamics Prediction in Engineering, CH-4620, \$180. See Section Y for Additional Books





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• Flow and Level

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• pH and Conductivity

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• Heaters

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