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

## DMD-470 Series



- ✓ 700V I/O Isolation
- ✓ 1100V Line Isolation
- ightharpoonup Power for Four 350  $\Omega$ 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

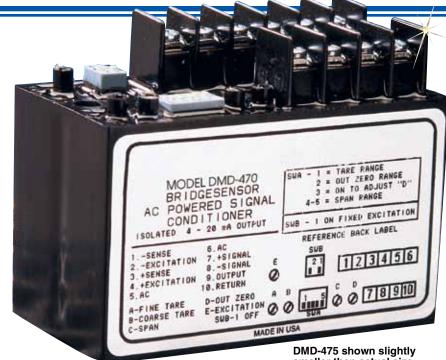
Power: 115 Vac ±10 Vac standard or 220 Vac ±10% 50/60 Hz optional

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")



smaller than actual size.

Current Output: 120 mA maximum 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: ±0.005% FS

Temperature Stability: 0.005%/°C Tare Adjustment: -3 to 25 mV Input Resistance: 1000 M $\Omega$ Output Zero Adjust: 0 to 2V Output Range: -3 to 10 Vdc Output Current: 5 mA maximum

**Dynamic Response:**  $\underline{DC}$  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: ±0.01% Zero Adjust: 0 to ±12 mA Temperature Stability: 0.005%/°C Tare Adjustment: -3 to 25 mV equals 80% of 3 mV/V cell Input Impedance: 1000 M $\Omega$ 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

To Order	
MODEL NO	DESCRIPTION
DMD-475	Voltage output (0 to 10 Vdc), 120 Vac
DMD-475-220V	220 Vac powered DMD-475
DMD-476	Current output (4 to 20 mA), 120 Vac
DMD-476-220V	220 Vac powered DMD-476
DMD-476-DC	DC powered DMD-476
POWER CORD-SE	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.

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