

STRAIN GAGE TO RS-232/RS-485 COMPUTER INTERFACE MODULE

DMD-480
SERIES
\$370



The DMD-480 Series units are self contained, ac powered strain gages to RS-232/RS-485 computer interface modules. Each model contains a precision differential instrumentation amplifier, A/D converter, microprocessor and highly regulated bridge excitation source. The A/D is ratiometric to the excitation supply voltage and provides 15-bit (0.0024%) resolution and is linear up to 0.01% up to 110% of range. Each unit is completely encapsulated for use in rugged environments.

- ✓ RS-232 or RS-485 Output
- ✓ 15-Bit Resolution
- ✓ 10 V Bridge Excitation Supply Capable of Driving 4 Load Cells
- ✓ Rugged Epoxy Encapsulated Design
- ✓ Basic Software Program Supplied with Unit for Calibration and Datalogging
- ✓ Up to 64 Addresses

SPECIFICATIONS

Input:

Voltage, Full Scale:

DMD-482 = ± 25 mV
DMD-483 = ± 30 mV
DMD-485 = ± 50 mV

Resistance, Differential:

>100 M Ω

Current: 100 pA

Common Mode Voltage:

0 to +5 Volts



The DMD-482 is no longer available. Please see the D1500 series as a possible substitute or contact sales.

Analog to Digital Conversion:

Resolution: 1 part in 41,000 (15-bit)

Conversion Rate: 5 times/second

Linearity (Referred to Input):
 $\pm 0.01\%$ of Full Scale

Temperature Coefficient(0 to 55°C):

Zero Drift (typical) $\pm 0.75 \mu\text{V}/^\circ\text{C}$

Span (typical) $\pm 0.005\%/^\circ\text{C}$

Bridge Excitation Supply:

Output: 10 Vdc

Adjustment Range: $\pm 3\%$

Load Current: 120 mA Maximum

Load Regulation: 1 mV typical

Temperature Coefficient:
 $\pm 0.006\%/^\circ\text{C}$ typical

Isolation:

Common to Line

Analog & Microprocessor: 500 V rms

Common to Serial Output

Analog & Microprocessor: 500 V rms

Power Requirements:

115 Vac ± 10 V 50/60 Hz 6 VA

(230 Vac ± 20 V Available)

Dimensions:

95 L x 51 W x 73 mm H

(3.75 L x 2 W x 2.87" H)

Output Connections:

RS-232 Models: DB9 Connector

RS-485 Models: Screw Terminals

To Order (Specify Model No.)

MODEL NO.	PRICE	DESCRIPTION
DMD-482-S2	\$370	± 25 mV input/ RS-232 output
DMD-482-S4	370	± 25 mV input/ RS-485 output
DMD-483-S2	370	± 30 mV input/ RS-232 output
DMD-483-S4	370	± 30 mV input/ RS-485 output
DMD-485-S2	370	± 50 mV input/ RS-232 output
DMD-485-S4	370	± 50 mV input/ RS-485 output

Comes with complete operator's manual.

To order with 220Vac power, add suffix "

-220" to Model No.; no additional charge

Ordering Example: DMD-482-S2 converts a ± 25 mV input to RS-232, \$370.



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• Flow and Level

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• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters