

Transducer Display Module

Model TDM

- Precision low drift bridge excitation supply of 10 Volts
- Powers resistive bridges of 250 Ω and greater
- Precision, low noise, differential amplifier
- Externally adjustable gains of 50.02, 99.04, 197.08, 394.7 V/V
- Amplified signal is at high-level voltage
- Wide signal bandwidth (20kHz standard)
- Shunt calibration resistance of 100k Ω
- Peak detect/hold feature



Description

The *Transducer Display Module* is designed to provide a quick-read display for strain-gage based load cells and transducers. It provides bridge excitation and signal amplification and calculates loads for display in pounds or Newtons. A shunt resistor is provided for calibration, along with external adjustments for offset, sensitivity and gain. The peak detect feature allows for the temporary storage and recall of maximum and minimum values.



TDM Front Panel



TDM Back Panel

8500 Ance Road
Charlevoix, MI 49720
Tel: 231-547-5511
Fax: 231-547-7070
12-29-21
Rev. A

MICHIGAN SCIENTIFIC
corporation
<http://www.michsci.com>
Email: miscinfo@michsci.com

321 East Huron Street
Milford, MI 48381
Tel: 248-685-3939
Fax: 248-685-5406

Transducer Display Module

Specifications

PARAMETER	SPECIFICATION
BRIDGE EXCITATION	
Type	DC Constant Voltage (Bipolar excitation)
Magnitude	±5.0 V (10 volts total)
Accuracy	0.05%
Temperature Coefficient	0.0005 % / °C (0.00028 % / °F) Max
CALIBRATION	
Shunt Resistance	100k ohm
Shunt Accuracy	0.1%
GAIN	
Values (V/V)	Externally adjustable 50.02, 99.04, 197.08, 394.7
Accuracy	±0.50 % typ (±1.00 % max)
Temperature Coefficient	-0.0025 % / °C (0.0014 % / °F)
OUTPUT	
Range	±11 V Max
Frequency Response -3dB	20 kHz
POWER REQUIREMENTS	
Voltage @ 25°C	9-18 VDC
Current	350 mA max
ENVIRONMENT	
Specification & Operation	-40 to +85 °C (-40 to +185 °F)
MECHANICAL	
Weight	1 lb 3 oz.
Length	6.25 in
Width	2.625 in
Width	4.1875 in