

PRODUCT BULLETIN

MODEL
TM-1

12 VDC POWERED AMPLIFIER / CONDITIONER MODULE

The TM-1 Module provides low cost dedicated conditioning for one bridge type load or pressure sensor. The unit can be placed near the sensor for high level signal transmission. Several units can be

powered from a common power supply. Balance and span pots are low Temco metal film for long term stability and good resolution.



Low Cost
Small Size
12 VDC Powered

SPECIFICATIONS

AMPLIFIER SECTION:

Type	Bipolar, differential
Gain Range	75 to 1000
Input Sensitivity	1mV/V Min. for 8 V. Output
Output Voltage	0 to +/- 8 VDC (Linear to 9.5)
Output Current	0 to 10 mA
Non-Linearity	.01 % maximum
Compliance	.1 % plus vs. minus full scale
Stability	+/- .1 % for 24 hours
Temco	.01 % full scale /° C
Noise and Ripple	Less than 5 mV P-P AT Gain=1000
Filter Type	2 Pole Butterworth
Frequency Response	DC to 220 HZ (2.2, 22, 2200 HZ available in lots of 10, no charge)

BRIDGE SECTION:

Excitation Voltage	8 VDC +/- .25
Sensor Resistance	120 OHM min., 1000 OHM max.
Balance Range	+/- 30 % of output (350 OHM Bridge)

GENERAL:

Size	2.25 X 2.50 X .80 inch tall
Mounting	Corner Standoffs, 4-40 thread
Input/output	Via screw terminals
Operating Temperature	0 to 70° C
Power Required	12 VDC +/- .5 at 65 mA.

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