

TM-2

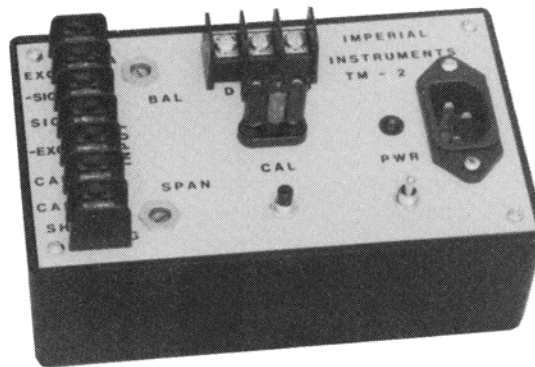
BENCH TOP AMPLIFIER / CONDITIONER MODULE

The TM-2 Transducer Module is a complete differential amplifier/signal conditioner with self contained power. The unit provides excitation, balance and span adjust via precision 10 turn pots, and shunt calibration necessary to couple a user supplied bridge type transducer to an indicating instrument. Full scale output is specified at 10 volts. The TM-2 provides a floating shunt calibration circuit which applies calibration at the transducer, thereby eliminating errors due to line losses. The excitation supply incorporates a Wagner Ground to greatly improve Common-Mode-Rejection. Power cord, R-Cal resistor and holder also included.

The primary application of the TM-2 Module will be instrumentation support for testing and process control, as a dedicated component or as part of a bench top breadboard. The factory set band-width of the module is narrow to improve stability for applications such as weighing scales.

FEATURES

- Self contained
- Precision controls
- High level output
- Modest cost
- Wide-band option



MADE IN USA

SPECIFICATIONS

SIGNAL CONDITIONER

Type : Full External Bridge
 Bridge Resistance : 120 to 1000 OHM
 Balance Range : 3% of bridge resistance
 Shunt Calibration : Single point momentary
 Calibration Value : 1 MV/V resistor provided

BRIDGE AMPLIFIER

Type : Bipolar, Differential
 Gain Range : 67 to 737
 Input Sensitivity : 1 MV/V to 10 MV/V
 Input Impedance : 10 Megohm minimum
 Output Voltage : 0 to ± 10 volts
 Output Current : 0 to ± 10 MA
 Output Impedance : 75 OHM
 CMR : 110 db minimum, DC-60 Hz
 Noise and Ripple : Less than 3 MVP-P
 Non-Linearity : .01% maximum
 Compliance : .15% plus vs minus F.S.

4 FILTER Type : Low pass, 12 db/octave
 Frequency Response : 13 Hz standard, 4-500 Hz available

EXCITATION SUPPLY

Type : Constant voltage
 Output : 8 VDC \pm .25%
 Output Current : 1 to 120 MA
 Current Limit : Factory set at 65 MA
 Load Regulation : .1% max for 100% load change

GENERAL

Balance Stability : \pm .1% for 8 hours
 Gain Stability : \pm .01% for 8 hours
 Tempco : \pm .02% full scale/° C
 Operating Temp : 0 to 50° C
 Size : 3 x 3.75 x 6.25 inches
 Weight : Less than 2 lbs. approx.
 Fuse : ¼ AMP, slow blow, internal
 Power : 115 VAC \pm 10%, 50-400 Hz, 3 watts

OPTIONS

-H : DC-5000 Hz or
 DC-10,000 Hz band-width
 -A : Current Loop Output