

Signal Conditioning Specifications

Available Modules -

- DC, AC, Thermocouple, Resistance Temperature Transmitters
- Differential Temperature
- Signal Alarm Module
- Adder / Subtractor, Multiplier / Divider
- Analog Characterization Module, Square Root Extractor, Etc.
- Ramp Generator
- Signal Selector
- Integrator
- Averager
- Suppression Discriminator
- Pulse to Pulse Scaling
- Strain Gage
- Sample / Hold
- Rate Limiter
- BTU Computer
- Positioner
- Mass Flow computer, Gas Flow computer
- Pulse Accumulator
- Analog / Pulse Duration, Pulse Duration / Analog
- Pulse or Frequency / Analog, Scaled Pulse

Electrical -

- **Supply Voltage:**
Module: 24 VDC
Assembly (with Power Supply Module): 115 VAC 60Hz
- **Inputs:** Any AC, DC, RTD, T/C, Strain Gage, Contact Closure (specify)
- **Outputs:** Any AC, DC, RTD, T/C, Strain Gage, Relay Contact (specify)

Environmental -

- **Operating Temperature:** -30 to 80 degrees C
- **Operating Humidity:** 5 to 95%

Warranty -

- 7 years, Transferable.

Performance -

- **Calibration Accuracy:** $\pm 0.10\%$
- **Linearity / Repeatability:** $\pm 0.10\%$
- **Temperature Sensitivity:** $\pm 0.005\%$ / degree C
- **Line voltage sensitivity:** $\pm 0.0001\%$ / 1% line change
- **Signal to DC Power Isolation:** Standard
- **Input to Output Isolation:** Optional, 1500 Vp-p
- **Extremely High Common / Normal Mode Noise Rejection.**
- **Zero Droop Sample-Hold and Ramp Generator Circuits.**
- **Output:**
Current: (Automatic R loop correction)
1/5 mADC into 0-2400 Ohm std., 0-5000 Ohm opt.
4/20 mADC into 0-600 Ohm std., 0-1500 Ohm opt.
10/50 mADC into 0-200 Ohm std., 0-600 Ohm opt.
Voltage: (Normally zero Ohm source impedance)
0 to 10 mADC into load.
Control Relay: 7 AMP contacts, Resistive
Pulse: Any V or I source or Sink.
- **Input Impedance:**
1/5 mA is 200 Ohm, 4/20 mA is 50 Ohm, 10/50 mA is 20 Ohm
V and mV is Greater than 10 Megaohms
- **CSA Certified:** Yes for 115 VAC Assemblies

Physical -

- **Dimension:**
Module: 1 1/8 x 3 x 2 1/2 Inches (includes connectors)
PTA assembly: 2 3/4 x 8 1/2 x 3 3/4 Inches
TA assembly: 21 x 10 x 3 Inches Max
EIA assembly: 19 x 5 1/4 x 10 Max.
- **Package:** Circuitry hermetically sealed.
- **Mounting:**
Module:
Plugs into PTA, TA, or EIA Assemblies
DIN
Snap Track
Surface
Assembly:
Surface (PTA, TA)
Rack (TA, EIA)
- **Connectors:**
Module Pins: Gold plated over Beryllium copper.
Screw Terminals. Wire Range: 22 - 12 AWG