Pressure Transducer Strain Gauge Interface

The PTiM from FACTS provides a complete electrical interface for strain gauge transducers and includes a precision excitation voltage supply, signal conditioning, alarm outputs and auto-calibration.

The PTiM will interface to any strain gauge device but is specifically designed for millivolt melt pressure transducers including those supplied by Dynisco and Gefran.

**features**

**Two Models**
- Single Channel: PN A-B31.01
- Dual Channel: PN A-B31.02

**Strain Gauge Interface**
- Precision 10 vDC Excitation Supply
- mV Strain Gauge Input

**Signal Conditioning Outputs per Channel**
- Simultaneous 0-10 VDC and 4-20mA

**Over Pressure Alarm Detection**
- Field Adjustable Trip Points
- Dual Indication Outputs:
  - Mechanical Alarm Relay (N.C.)
  - PLC 24VDC Alarm Output
- Independent Alarm Set points per Channel
- Alarm LED

**Auto Calibration**

**specs**

**DIN Rail Mount Size (w h d)**
- 2.79in x 3.55in x 2.26in
- 71mm x 90.2mm x 57.5mm

**Temperature Range (Operating and Storage)**
- -40° to 50°C with no icing
- 5% to 85% RH

**Power**
- 24 vDC / 180 mA - Reverse Voltage Protection

**Transducer Excitation Power Supply**
- 10 vDC Fused to 250 mA

**Inputs**
- 0-33 mV Strain Gauge (2, 4 or 6 wire)
- Auto-Calibration 24 vDC

**Outputs**
- 0-10 vDC @ 25 mA Max with Short Circuit Protection
- 4-20 mA Self-Excited
- PLC Alarm - Active Low, Sinking, 250 mS Minimum
- Relay – 3A @ 30 vDC Normally Closed

**FACTS, Inc.**
2737 Front Street
Cuyahoga Falls, OH 44221
T: (330) 928 2332
F: (330) 928 3018
www.facts-inc.com

**MADE IN THE USA**