Bulletin H008-621

Strain Gauge MEASUREMENT AMPLIFIER

Model TS621

The TS621 Electronic Strain Gauge Amplifier provides outstanding signal conditioning capabilities suitable for use with most strain-gaugebased sensors. It is supplied in a DIN-Rail housing for convenient snap-in installation.

TS621performance features include galvanic isolation, regulated power supply for the sensor, coarse and fine calibration adjustments, screw terminals for power and analog outputs, with a removable terminal block for the sensor input.

- Designed for use with a wide range of strain-gauge-based force, load and tension sensors
- Provides accuracy of ±0.1%
- Galvanic Isolation minimizes the chance for signal interference, including ground faults
- Operating input power supply of 19–36 VDC, non-regulated
- Includes excellent overload and reverse-polarity protection
- Provides a well-regulated power supply of 10 VDC for sensor
- 0–10VDC analog output
- A second optional output is offered providing:
 - Current output of 4–20mA or 0–20 mA (option A)
 - Amplified voltage output of 2X, 3X, 4X or 5X amplification (option X)
 - Damped voltage output minimizing tension fluctuations (option D)



SPECIFICATIONS

Sensor Types Impedance Range Overall Accuracy Power Source Required Power Supply to Sensor Calibration Range	Strain Gauge, full bridge 170 to 500 Ohms 0.1% (any portion of the range) 19 to 36 VDC (24 VDC, typical) 10 VDC, regulated (±5 VDC referenced to ground) 38 to 580%
Output from TS621	0-10 VDC (standard)
Optional Outputs	<i>Current</i> (option A), 0–20/4–20 mA, user set <i>Amplified</i> voltage (option X),2X, 3X, 4X, 5X amplification, user set <i>Damped</i> voltage (option D) at 4 seconds
Isolation between I/O	Galvanic Isolation using integrated DC–DC converter between input power & output signals
Power Consumption	100 mA @ 24 VDC
Operating Temperature	32 to 140 °F (0 to 60 °C)
Temperature Coefficient	< 0.05% per °C
Connector Types	Screw Terminals
Dimensions	3.1" (H) x 1" (W) x 3.7" (D) <i>(80 x 25 x 95mm)</i>
Weight	4 ounces (100 grams)
Mounting Style	DIN-Rail Snap-In Installation (DIN-rail not provided)

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