

Strain Gauge AMPLIFIER

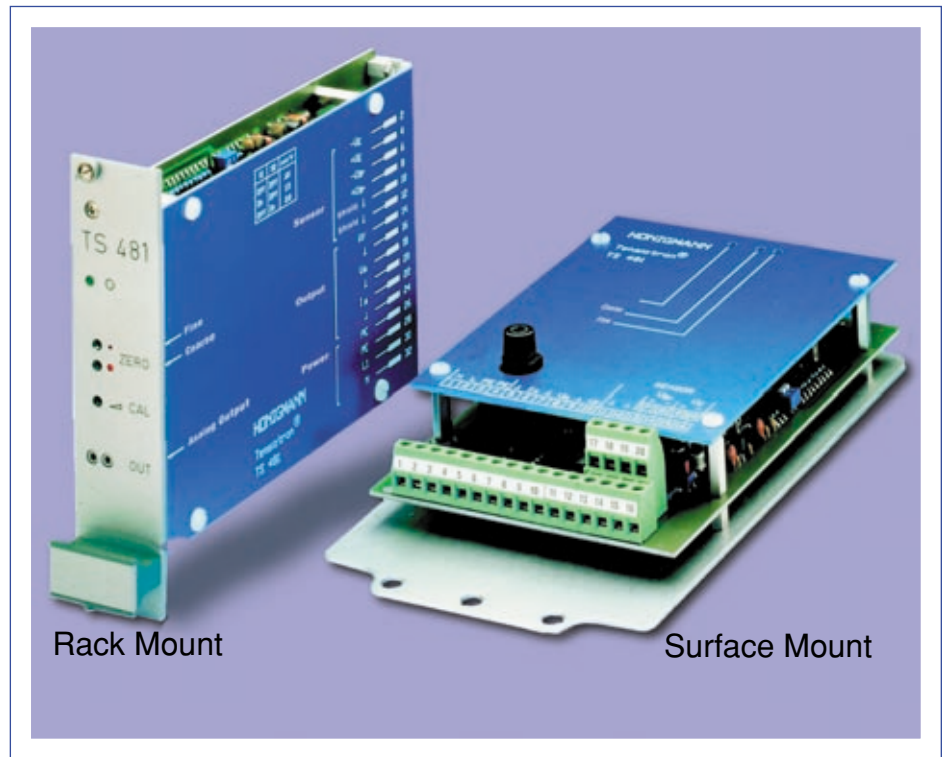
TS481-19
(19" Rack Mounted)

TS481-M
(Surface Mounted)

The TS481 Strain Gauge Amplifier Card is designed for use with the RFS/NWS & WTS Tension Sensors. It is offered in two versions: Surface Mounted (M) and 19" Rack Mounted (19).

FEATURES

- *Galvanic Isolation* minimizes the chance for signal interference, including ground faults
- Provides accuracy of $\pm 0.1\%$
- User-enabled "damping function" eliminates tension fluctuations
- Optional "Explosion Proof" configuration
- "Coarse" and "Fine" ZERO and SPAN Adjustments
- 0–10VDC analog output is standard. A current output option can be added providing 0–20/4–20mA (option A).



SPECIFICATIONS

Sensor Types	Strain Gauge, full bridge	
Impedance Range	170 to 5000 Ohms	
Overall Accuracy	0.1% (any portion of the range)	
Power Required	115 VAC, 50/60 Hz For 230 VAC version add "-230" suffix (i.e. TS481-M-230)	
Power Supply to Sensor	10 VDC, regulated (± 5 VDC referenced to ground)	
Calibration Range	60 to 450%	
Output	0–10 VDC (standard) 4–20 mA or 0–20 mA (available as a 2 nd output)	
Isolation Between I/O	Galvanic Isolation using integrated DC–DC converter between input power & output signals	
Operating Temperature	32 to 140 °F (0 to 60 °C)	
Temperature Coefficient	< 0.05% per °C	
Mounting Style	<i>Rack Mount (19)</i>	<i>Surface Mount (M)</i>
Connector Types	Blade contacts, 32 poles per DIN 41612D	Screw terminals
Dimensions (in mm)	100 x 160 (3HE/6TE)	107 (L) x 207 (W) x 40 (H)
Weight	400 grams	600 grams