

# Strain Gauge AMPLIFIER

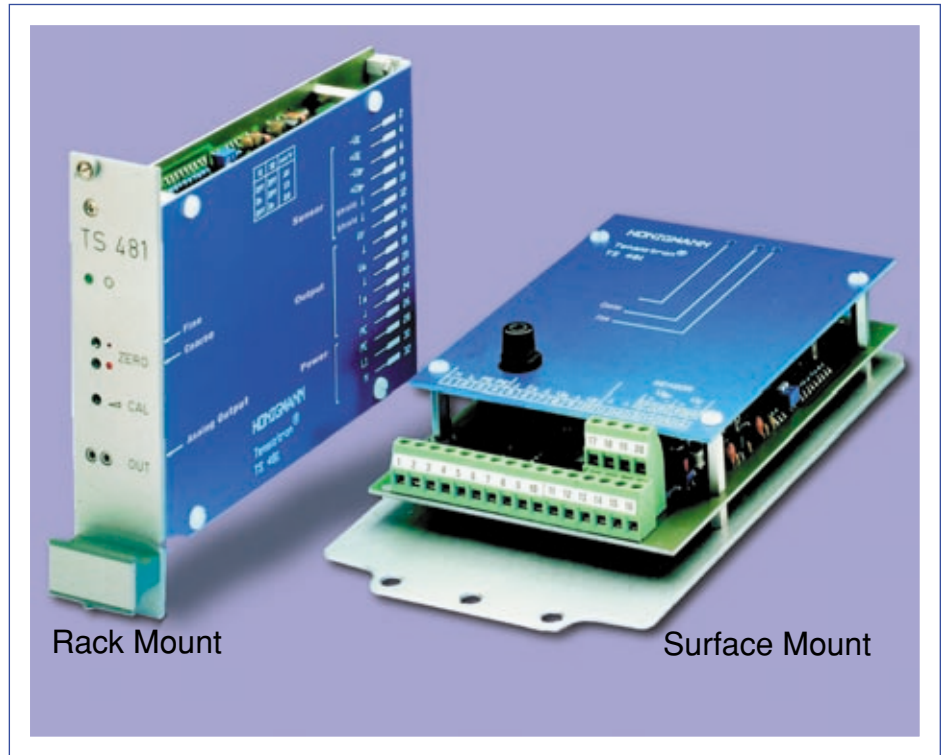
**TS481-19**  
(19" Rack Mounted)

**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

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

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