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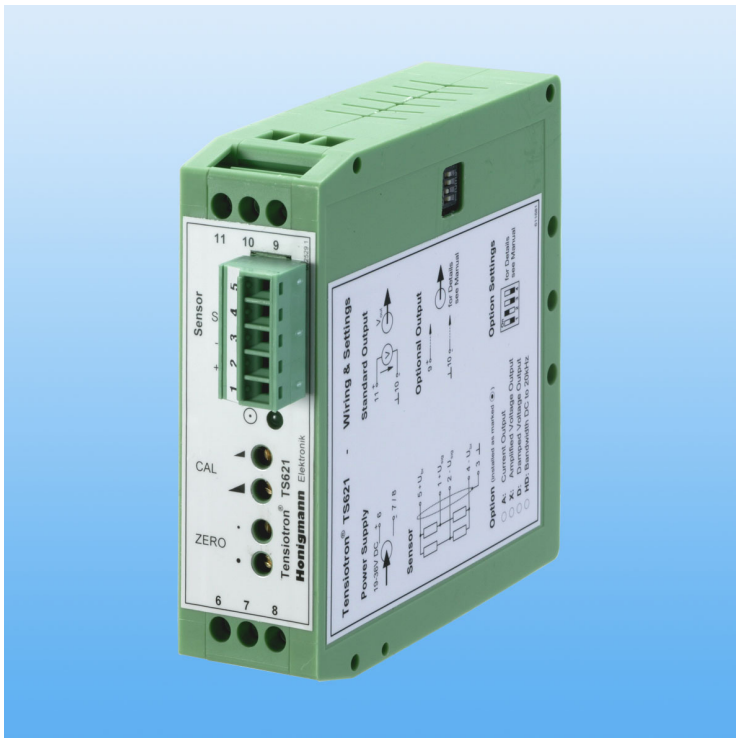
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TENSIOTRON® TS 621

Precision strain gauge measuring amplifier



The **TENSIOTRON® TS 621** electronic strain gauge amplifier combines the highest quality power and signal conditioning capabilities suitable for use with most strain gauge-based sensors, esp. tension measurement.

Best temperature and long-term stability as well as high accuracy are guaranteed by using modern technology.

The **TS 621** delivers superb performance features such as galvanic isolation, removable terminal block for the sensor connections, multiple options and high quality.

Special features:

- great noise immunity and service reliability for use in rough industrial operation
- direct input power supply of 24V DC, reverse-polarity protected, providing
  - wide operating input power supply of 19-36V DC, LED indicates power-on status
  - integrated DC-DC converter for galvanic isolation between power supply and measuring circuit (very important to avoid ground loops in combination with secondary electronics)
- provides a well-regulated power supply for sensor excitation, balanced to ground
- coarse and fine adjustments for zero and amplification setting
- screw terminal for power and outputs
- removable screw terminal plug for the sensor connections
  - available accessory: adaptor plug 2/1 (parallel connection of 2 sensors directly at amplifier input)
- standard: voltage output 0-10V, bipolar
  optional outputs available:
  - option **D** → additional damped voltage output, selectable cut-off frequency 0,5 / 5 / 10 / 20Hz
  - option **A** → additional current output, selectable 0-20mA / 4-20mA, unipolar or bipolar
  - option **X** → additional voltage output, selectable amplification factor 2x, 3x, 4x, 5x

Technical data TS 621

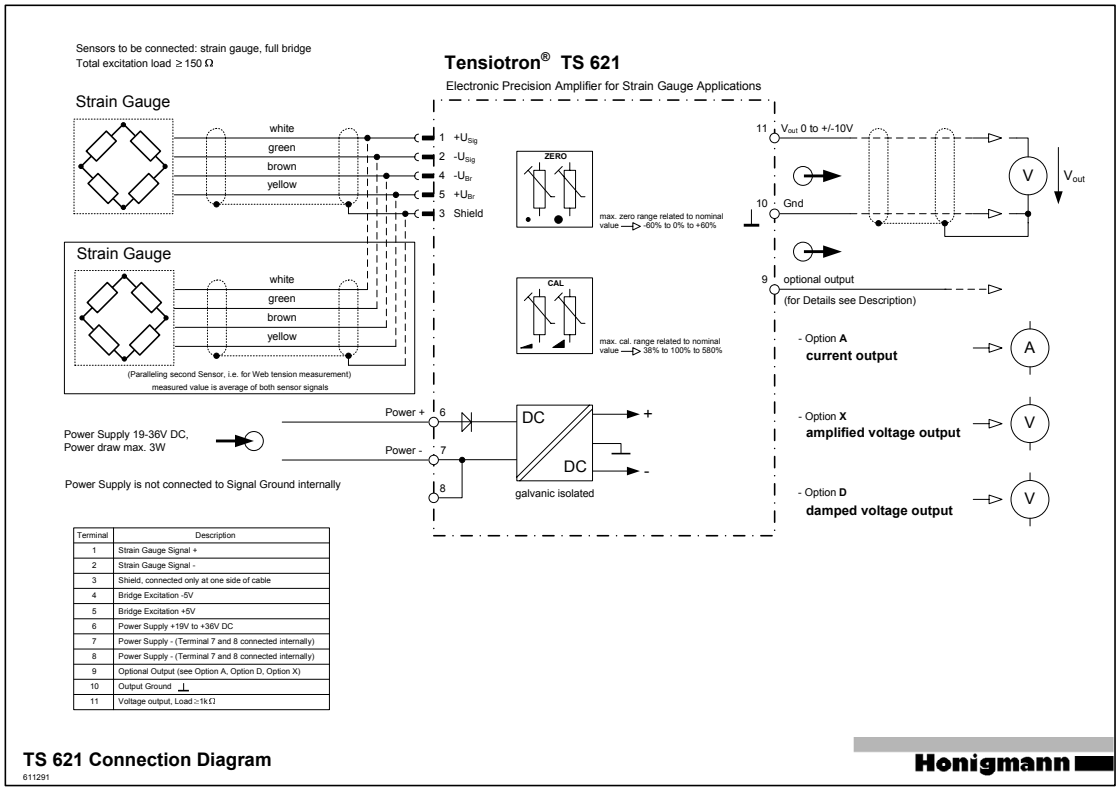
Designation		**TENSIOTRON® TS 621**
Design		DIN-rail housing for convenient snap-in installation
Accuracy class		**0,1**
Sensors to be connected: - strain gauge, full bridge	 Ω	admissible connection impedance ≥ 150
Bridge excitation voltage - referenced to ground (GND)	V DC V DC	10 ± 0,5 % ± 5
Nominal gain G_{nom}		667
Nominal measuring range U_{sig}	mV	± 15
Calibration range referenced to G_{nom}	%	38 to 100 to 580
Adjustment range zero @ G_{nom} - fine approx. - coarse approx.	 % [1] % [1]	 ± 20 ± 60
Input impedance	Ω	10^{10}
Cut-off frequency (- 3 dB)	Hz	approx. 70
Standard output - voltage output V_{out} (@ G_{nom} • U_{sig}) **OPTION** additional output: **- D** damped voltage output Vd_{out} Bessel low-pass-filter 5th order (configuration via DIP switch) **- A** current output - bipolar - unipolar - unipolar (configuration via DIP switch) **- X** voltage output with selectable amplification factor X V_{out}* = X • V_{out} (f_C = 25 Hz) voltage output V_{out}* (configuration via DIP switch)	 V V Hz mA mA mA V V	 0 to ± 10, max. 10 mA 0 to ± 10, max. 10 mA f_C = 0,5 / 5 / 10 / 20 0 to ± 20, admissible load 0 to 500 Ω 0 to + 20, admissible load 0 to 500 Ω 4 to + 20, admissible load 0 to 500 Ω V_{out}* = 2 / 3 / 4 / 5 • V_{out} 0 to ± 10, max. 10 mA
Nominal temperature range Operation temperature range Storage temperature range	° C ° C ° C	0 to + 60 0 to + 60 -25 to + 75

Temperature influence per 10 °C - on zero at amplifier output - on calibration	 mV % [1]	 < 10 (@ G_{nom}) < 0,05
Supply voltage Power consumption	V DC W	19 to 36 max. 3 integrated DC-DC converter for galvanic isolation between supply voltage and measurement circuit
Amplifier connection		screw terminals for flexible cable 0,2 to 2,5 mm^2
Sensor connection		plug with screw terminals for flexible cable 0,08 to 1,5 mm^2
Dimensions (L x W x H)	mm	80 x 25 x 95
Weight	g	approx. 100
Installation		Snap-in installation on DIN-EN mounting rails

[1] of final value

Explanation of grammalogue:

f_C	⇒ Cut-off frequency	V_{out}	⇒ Voltage at standard output
G_{nom}	⇒ Nominal gain	V_{out}*	⇒ Voltage at optional output with select. amplification factor
U_{sig}	⇒ Input voltage	Vd_{out}	⇒ Voltage at optional damped output



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