

**Strain Gauge Measurement Amplifier for DIN Mounting Rail****GM 62**

- 10 .. 30VDC Supply, galvanically separated
- For Switch-Cabinet Assembly, Width only 23 mm
- Sensor Excitation 6 .. 10V adjustable
- Voltage Output $\pm 10V$
- 2 Parallel Sensor Connections
- Direct Connection to PLC
- External Control Signal Trigger
- Very Easy Operation
- Abatable Clamps

**Description**

The DIN Mounting Rail Measuring Amplifier GM 62 has 2 parallel sensor connections. These strain gauge (SG) signals are amplified to an output signal of $\pm 10V$ conforming to standards.

The slim-line housing allows space-saving assembly in switch-cabinets close to the sensors on standardized DIN mounting rails.

A galvanically separated supply voltage range of 10 .. 30VDC and the analog output of $\pm 10V$ allow the direct signal processing with a PLC-control.

All control elements are accessible front-sided behind a hinged acryl glass pane.

The adaptation of the sensor sensitivity takes place on site by a DIL-switch. Pre-loads (tare) can be adjusted.

The control signal switch can be activated via an external control signal or via the front-sided control key.

Interference signals and transient effects of the measurement signals can be alleviated by the input filter.

The vernier of amplification, zero point and filter is possible by potentiometers.

Specifications

Art.-No.	GM 62 109602
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Evaluation Side

Supply	Supply voltage Ripple Current consumption	10 .. 30VDC <10% 10VDC \leq 220 mA / 30VDC \leq 100 mA
Signal output: Voltage output unfiltered	Output signal U-out Ripple Amplification drift Zero point drift Output resistance Cut-off frequency	$\pm 10V$, ≤ 2 mA <20 mV <0.04%/10 K <0.02%/10 K <10 Ω 1 kHz -3 dB
Signal output: Voltage output filtered	Ripple Amplification drift Zero point drift Output resistance Cut-off frequency adjustable	<5 mV <0.04%/10 K <0.02%/10 K <10 Ω 1 .. 70 Hz -3 dB

Sensor Side

Excitation	Sensor supply adjustable Temperature coefficient excitation voltage	6 .. 10V \leq 90 mA 25 ppm/K
Signal input	Sensor sensitivity Input resistance	± 4.5 mV/V 10 ⁹ Ω

Miscellaneous

Nominal temperature range	10 .. 40°C
Service temperature range	0 .. 60°C
Storage temperature range	-10 .. 70°C
Dimensions (W x H x L)	23 x 101 x 120 mm
Level of protection	IP 20
Clamping range of connection clamps	0.14 .. 1.5 mm ²
DIN mounting rail	DIN EN 50022

Options/ Accessories

Art.-No.	Type	Description
110564	mV/V	mV/V adjusted sensitivity
115658	GM 41-NT	Power supply