

Strain Gauge Measurement Amplifier for DIN Mounting Rail

GM 62

- 10...30 V DC Supply, Galvanic Separation
- For Switch-Cabinet Assembly, Width 23 mm only
- Sensor Excitation 6...10 V adjustable
- Voltage Output ± 10 V
- 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 SG signals are amplified to an output signal of ± 10 V 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...30 V DC and the analog output of ± 10 V allow the direct signal processing with a PLC-control.

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

The adaptation of the sensor sensitivity takes place on site by a DIL-switch. Preloads (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.

TECHNICAL DATA

Type	GM 62	
Art.-No.	109602	
Evaluation Side		
Supply	Supply Voltage Ripple Current Consumption	10...30 V DC <10% 10 V DC ≤ 220 mA 30 V DC ≤ 100 mA
Signal Output Voltage Output unfiltered	Output Signal U-Out Ripple Amplification Drift Zero Point Drift Output Resistance Cut-Off Frequency	± 10 V ≤ 2 mA <20 mV <0.04%/10 K <0.02%/10 K <10 Ω 1 kHz -3 dB
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...10 V ≤ 90 mA 25 ppm/K
Signal Input	Sensor Sensitivity Input Resistance	± 4.5 mV/V $10^9 \Omega$
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	
Art.-No.	Option/Accessory	Function
110564	mV/V	mV/V adjusted sensitivity
108541	GM 40-NT	Power Supply