

DIN Mounting Rail SG Measuring Amplifier

Type 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 0...±10 V
- 2 Parallel Sensor Connections
- Direct Connection to PLC
- External Control
- Very Easy Operation
- Abatable Clamps



DESCRIPTION:

The DIN Mounting Rail SG Measuring Amplifier GM 62 has 2 parallel Sensor connections. These SG signals are amplified to an output signal of 0...±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 and the analog output of 0...±10 V allow the direct signal processing with a PLC-control.

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

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

The control 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% at 10 V max. 220 mA at 30 V max. 100 mA
Signal Output Voltage Output unfiltered	Output Signal U-Out Ripple Amplification Drift Zero Point Drift Output Resistance Cut-Off Frequency	0...±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 Ex- citation Voltage	6...10 V max. 90 mA 25 ppm/K
Signal Input	Sensor Sensitivity Input Resistance	0.3...4.5 mV/V min. 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 21
Clamping Range of Connection Clamps	0.14...1.5 mm ²
DIN Mounting Rail	DIN EN 60715 (TH35-7.5; TH35-15)

Options	Art. No.	Function
GM 61/62 increased Damping	101187	Restricted Zero Point (half Adjustment Range) increased Damping (0.3...35 Hz -3 dB)
GM 62/NEUT	109859	Neutral Design
GM 40/NT	108541	Power Supply