

Measuring Amplifier MV127

Scope of Supply

Amplifier in field enclosure

Standard (option U):

2 voltage outputs (direct / filtered)

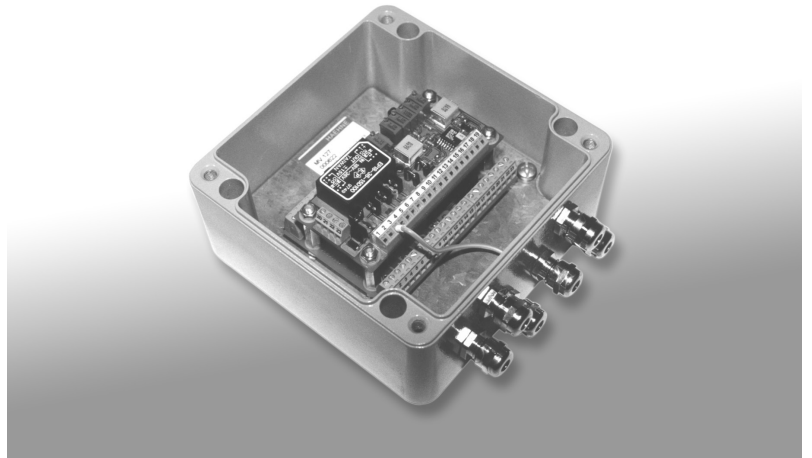
Variants

C: 1 current output 4...20 mA,
2 voltage outputs
(direct / filtered),

N: 1 current output 0...20 mA,
2 voltage outputs
(direct / filtered)

Additional Options

E: Enlarged excitation supply 160 mA



Special Features

- Amplifier with integrated excitation supply, 2 voltage outputs
- 2 independent limit switches with adjustable hysteresis
- Precision adder with weighted inputs to calculate
- Adjustable filter
- Signals and power supply galvanically isolated

The amplifier MV127 with additional functions is offered in a field enclosure. This makes it possible to amplify and analyze sensor signals in rough environments close to machines and equipment.

The amplifier has two potentiometers to compensate pre-coads e.g. the roll weight. The desired gain is adjusted with two additional potentiometers - coarse and fine.

All additional functions including the limit switches work with standardized voltage signals in the range of -10 V ...+10 V.

The ON and OFF switching points of the limit switches can be independently adjusted over the total voltage range. This enables the flexible use as two point controller. The inputs and outputs of the adder and both wide range limit switches are placed separately on terminals and can be used for internal or external signals.

Ordering example

MV127-C

Type

Variants / Options

Technical Data		
Strain gauge excitation supply	Voltage V_4	10 V
	Current max.	60 mA
	Option E	160 mA
Zero adjust compensation voltage	(in relation to voltage input)	-25...0...+25 mV
Amplification	Adjustment range	400...3200 V/V
	Factory adjustment	667 V/V
Signal outputs	Voltage (V_2, V_3)	-10...0...+ 10 V
	Min. load resistance	5 k Ω
	Signal raising delay (10...90 %)	V_2 direct: 5 ms
		V_3 filter 1: 2 s
	Current (I_1)	
	Option C	4...20 mA
	Option N	0...20 mA
	Max. load resistance	600 Ω
Adder	Input voltage range	-10...+ 10 V
	Input resistance of input rating 0,5	36 k Ω
	Input resistance of input rating 1,0	16 k Ω
	Min. load resistance output:	10 k Ω
Filter	Filter	low pass
	Input voltage range	-10...+ 10 V
	Min. load resistance output	10 k Ω
	Signal raising delay (10...90 %)	0,13 ... 4,8 s
Limit switch	Input voltage range	- 10...+ 10 V
	Input resistance	47 k Ω
	Adjustment range of switching point ON	-10...+ 10 V
	Adjustment range of switching point OFF	-10...+ 10 V
	Hysteresis=ON and OFF switching point	0... 20 V
	Switching response time	10 ms
	Relay contacts	230 V / 1 A
Supply voltage	Voltage (V_5)	24 VDC, \pm 10 %
	Current consumption	approx. 250 mA
Temperature range		0 ... 60° C
Terminal cross-section		AWG 26-16
Enclosure protection		IP 65

Dimensions

I x w x h:

140 x 140 x 91 mm

