

Pt-100 Measuring Transducer

AD-MV 50 GL
AD-MV 54 GL

Description

The measuring value amplifier AD-MV 50 GL (for 2/3 lead technology) or AD-MV 54 GL (for 4-lead technology only) converts the measuring signal issued from a resistance generator Pt-100 (according to DIN IEC 751) to an impressed output signal (i.e. 0-20 mA or similar). The output characteristic curve is issued temperature linear. When using the 3-lead switching lead, resistance up to 100 Ohms are compensated. In 2-lead switching a subsequent zero alignment and full alignment via trim potentiometers at the front is possible. The analogue output signal is galvanically separated from the supply voltage.

A highly efficient, integrated electronic wide-range power pack (ALLPOWER) enables operation with 20-253 V AC or DC. There is no possibility of cross polarity of the connection voltage. A high packing density is achieved due to its narrow build.



Application

Due to the use of a high quality electronic power pack, no strong temperature increase occurs. The housings do not have to be fitted at a distance from each other.

Specification

Construction type:	1 channel switchboard housing
Power supply:	ALLPOWER 20...253 V AC/DC internal galvanical separated
Power consumption:	approx. 2,3 VA resp. 1,5 W
Input:	Pt-100 (DIN IEC 751) AD-MV 50 GL: 2- or 3-wire systems AD-MV 54 GL: 4-wire system
Range of temperature:	by customer specification e.g. -10°C to +120°C
Output:	impressed current or voltage e.g. 0-20mA; 4-20mA; 0-10V DC (*)
Output load:	max. 400 Ohm with current-output min. 1 kOhm with voltage-output
Linearity error:	< 0,2%
Influence of temperature:	< 100 ppm/K
Insulation test voltage:	signal/supply: 4 kV RMS AC/DC
Protective system:	input/output against over-voltage power supply against over-voltage, over-current and over-temperature
EMC	
Product family standard	EN 61326
Emitted interference	EN 55011, CISPR11 Cl. B
Electrical safety requirements	
Product family standard	EN 61010-1
Ambient temperature:	0...+50°C
(*) values must be specified by order	

Connections and dimensions:

AD-MV 50 GL (for Pt-100, 2- and 3-wire systems)

AD-MV 54 GL (für Pt-100, 4-wire system)

weight: ca. 100 g

protection: IP 20

manner of fastening:

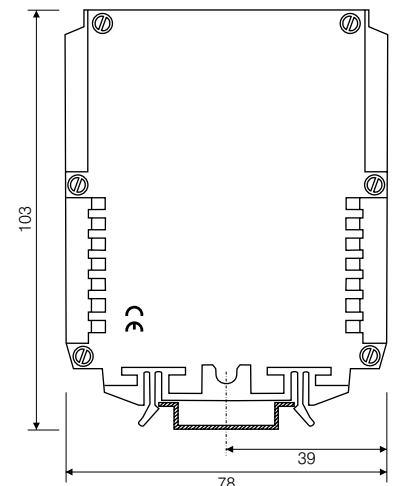
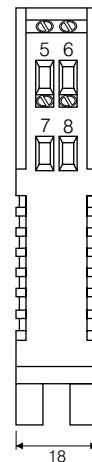
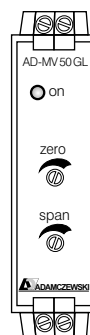
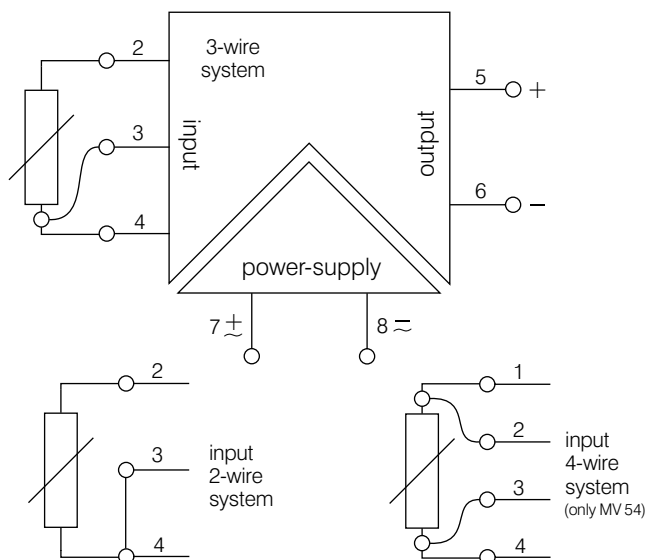
DIN rail: NS35/7,5

system data:

fine-wire: 2,5 mm²

single-wire: 4,0 mm²

max. voltage: 250 V~



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