

# Pt-100 Converter multi-channel

## AD-MV 544 GA

### Description

The Pt-100 measuring converter AD-MV 544 GA serves the conversion of temperature measuring values to analogue signals. The temperatures are registered via Pt-100 sensors in the 2- or 23-wire methods. With the 3-wire method the lead resistance are compensated automatically. The compact housing contains 4 fully independent channels. All input, output channels and the power supply are galvanically separated. The channels are also fully insulated amongst each other. For each channel, temperature range and type of output signal can be ordered on request. Spindle trimmer are located behind the front cover for direct adjustment.

### Application

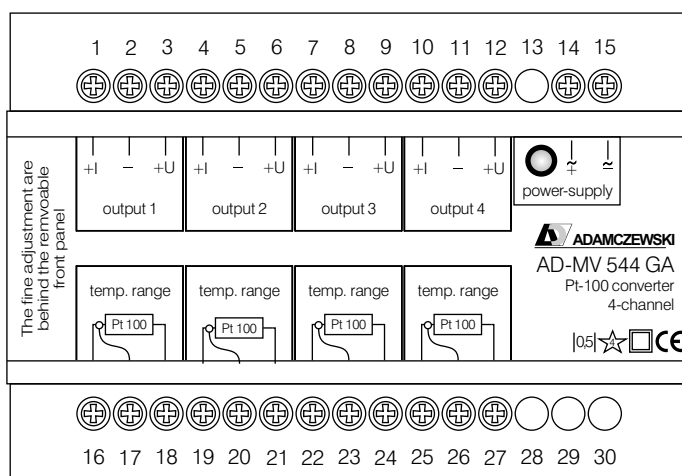
Registration of temperatures (Pt-100) and conversion to analogue signal sizes in 4 independent, galvanically separated channels.



### Specification

construction type	4-channel switchboard housing
power supply (*)	230V +/-10% 50-60Hz alternative 20-30 VDC internally galvanically isolated others on request
power consumption	approx. 5,8 VA resp. 3,6 W
input	4x pt-100 (2- or 3-wire) each channel adjustable others on request
max. temperature range	-200...+600°C according to customer data (min. 30°C delta)
output (*)	current or voltage e.g.: 0/4-20 mA, 0-10V
output load	max. 800 Ohm/20mA each channel min. 500 Ohm/10V each channel
linearity error	< 0,3%
influence of temperature	< 100 ppm/K
ripple	< 50 mVss
insulation test voltage	input/output 2 kV RMS channel/channel 2 kV RMS signal/power-supply 4 kV RMS AC 2 kV RMS DC
protective system:	input/output against over-voltage, polarity reversal, over-current power supply against over-voltage, over-current and over-temperature
CE-conformity:	EN 50081-2, EN 50082-2
ambient temperature:	0 to 50°C
(*) values must be advised by order	

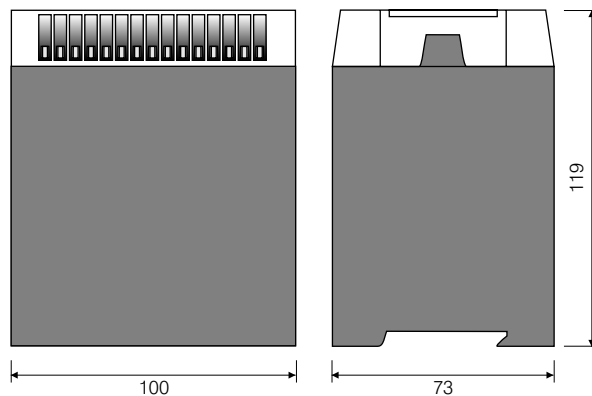
### Connections and dimensions: MV 544 GA



The fine adjustment are behind the removable front panel

weight: ca. 350 g  
protection: IP 20  
manner of fastening:  
DIN rail: NS35/7,5

connection data:  
fine-wire: 2,5 mm<sup>2</sup>  
single-wire: 4,0 mm<sup>2</sup>  
max. voltage: 250 V~



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