

# Analogue Calculator

## programmable

AD-MU 400 GVC

### Description

The analogue calculator AD-MU 400 GVC multiplies, divides or extracts square roots up to 4 singly rateable input signals or converts these in a product proportional, quotient proportional or radix proportional output signal.

As input signals, currents up to 20 mA or voltages up to 10 V (also bipolar) are possible. The inputs are galvanic separated from the auxiliary voltage and the outputs. The two analogue outputs current (max. 20mA) and voltage (max. 10V) can be utilised simultaneously.

The device can be configured with the optional configuration software "AD-Studio" via the interface AD-PC. However, this can also be carried out at the works according to customer data.

### Application

Continuous display of DC output = current x voltage,  
Amount of heat = temperature difference x through flow etc.



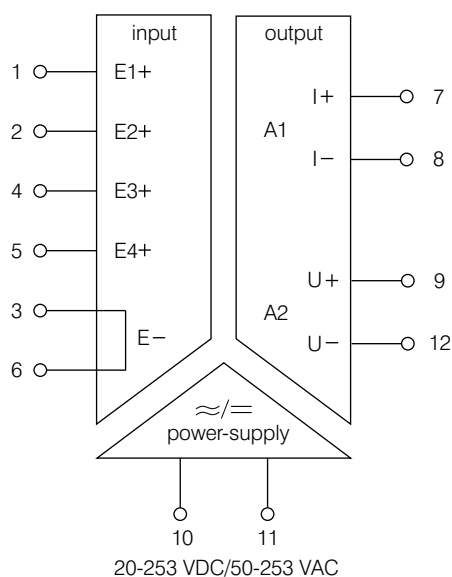
### Specification

Construction	1-channel switchboard housing 18x110x128mm (WxHxD) with detachable terminal clamp
Power-supply power-consumption Input <sup>(1)</sup>	20-253 VDC or 50-253 VAC max. 1 W / 1,5 VA current (max. ±20mA) or voltage (max. ±10V) max. 4 inputs
Input impedance	60 Ohm with current 1MΩ with voltage
Output <sup>(2)</sup> Output load	current 0/4-20 mA and voltage 0-10 V max. 500 Ohm with 20 mA min. 10 kΩ with 10 V
Linearity error	< 0,2 % of full scale
Ripple	< 0,1 %
Response time	< 100 ms
Ambient-temperature	0-50°C
Effect of temperature	±100 ppm/K of full scale
Insulation test voltage	input/output 2,5 kV/1 min.) signal/power-supply 4 kV/1 min.)
Protective systems	against pulsed over-voltage, over-current and polarity reversal
EMC	
Product family standard	EN 61326
Emitted interference	EN 55011, CISPR11 Cl. B
Electrical safety requirements	
Product family standard	EN 61010-1

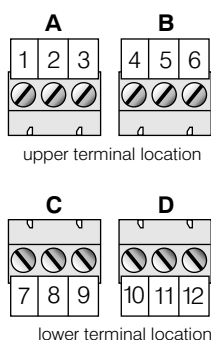
<sup>(1)</sup> Please state signal inputs when ordering. A galvanic coupling is to be excluded.

<sup>(2)</sup> Signal outputs can be utilised together, must not have any galvanic connection.

### Connections and dimensions: AD-MU 400 GVC

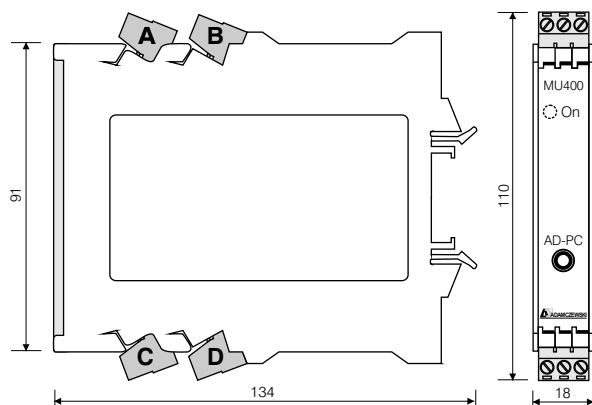


#### Terminal location



weight max. 140 g  
protection: IP 20  
manner of fastening:  
attachment rail: NS35/7,5

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



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