

# ПРЕОБРАЗОВАТЕЛИ ТЕМПЕРАТУРЫ МУК VG



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## MUK VG temperature transmitter for Pt100

- 4..20 mA measuring transducer for Pt100 sensors
- connection in 2-, 3- or 4-wire technology
- precision < 0,25 °C
- correction of the actual value
- automatic/configurable cable resistance compensation (2-wire)
- sensor error detection
- programmable linearization, absorption, information of condition an serial number
- PC datalogging
- excellent temperature stability



### description

The MUK-VG is a programmable measuring transducer for pt100 detectors in a field frame. The power supply occurs about the 4...20 mA bow.

For the resistance measurement the connection in 2-, 3- or 4-conductor technology is possible. At the 2-wire connection an automatic compensation of the cable resistance is possible.

With the help of a PC and the flex-program based on Windows the configuration of the following parameters is possible via the 4...20 mA bow:  
TAG-no., number of wires, cable resistance, error detection level, effective range, absorption, offset and status indication.

The flex-program provides the connection of a data reading registration at the display, which allows the user to guard the measuring results.

The measuring transducer is mounted in a field frame and suitable for the local using.



## MUK VG temperature transmitter for Pt100

### technical facts

#### input

##### precision

effective range  $\leq 250^{\circ}\text{C}$   $< 0,25^{\circ}\text{C}$

effective range  $> 250^{\circ}\text{C}$  0,1% of the range

measuring cyclus  $< 0,7$  sec.

Pt100 standard IEC/DIN/EN 60 751-2

measuring power Pt100 0,3 mA, constant current

type of sensor 2-, 3- or 4-wire

eff. range underflow  $< -225^{\circ}\text{C}$

eff. range overflow  $> 875^{\circ}\text{C}$

error detection delay  $< 10$  sec.

compensation for cable error  $< 0,02^{\circ}\text{C}/\text{Ohm}$   
(3-wire)

cable resistance max. 20 Ohm/wire

effective range  $-200 \dots 850^{\circ}\text{C}$

unit of measurement  $^{\circ}\text{C}$  or  $^{\circ}\text{F}$

min. span 25 K

overvoltage protection  $\pm 35$  V DC

line frequency 50...60 Hz

suppression 14 bit

resolution  $< 0,1^{\circ}\text{C}$

repeatability max.  $\pm 10^{\circ}\text{C}$

offset adjustment

#### output

signal range 4...20 mA, 2-wire

precision  $< 0,1\%$  of the signal range

auxiliary power 8...35 V DC

ripple immunity 3 V rms

max. burden  $RL \leq (VCC-8)/23$  [kOhm]

signal overflow/underflow 23 mA/3,5 mA

absorption 0...30 sec.

protection protection against incorrect polarity

resolution 12 bit

#### environmental conditions

operating temperature  $-40 \dots 85^{\circ}\text{C}$

#### EMV facts

immunity fulfill EN 50082-2

emission fulfill EN 50081-1

#### mechanical facts

dimensions 58 x 64 x 35 mm

#### further facts

temperature influence typ. 0,003 % per  $^{\circ}\text{C}$   
max. 0,01 % per  $^{\circ}\text{C}$

power-on time 10 sec.

### facts of order

#### MUK VG

construction of standard



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