

# Universal-Measuring-Transducer MU2000K

## AC and DC, Voltage and Current

### MU2000K



Part number: **T236053**

Measuring transducers MU2000K can measure DC- and AC- voltages up to 600 V and AC- and DC- currents 0-1/5 A.

Preset measuring ranges can be selected. More measuring ranges (zero and full scale) can be easily scaled.

The output signals DC 0/2-10 V and 0/4-20 mA are insulated from measuring input and supply voltage.

With its universal supply voltage AC/DC 24-240 V the measuring transducer can be connected to all common supply voltages.

The MU2000K e.g. is suitable for measuring DC voltages and charging currents at batteries or for measuring AC voltages and currents in plants for own generation of energy.

Zero and full scale for other ranges can be scaled by the user.

Outputs:

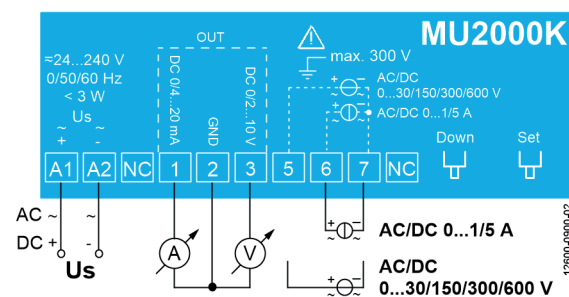
- DC 0/4-20 mA
- DC 0/2-10 V
- Insulation between input, output and supply voltage

Displays and control elements:

- 2 buttons for scaling
- 4 LEDs for display of state and scaling
- Universal supply-voltage AC/DC 24-240 V
- Housing type K, 22,5 mm wide

Inputs:

- Voltage AC/DC 600 V (preset 0-30/150/300/600 V, 80-120V)
- Current AC/DC 5 A (preset 1/5 A)
- AC and DC measuring without switching over



### Technical Data

Rated supply voltage $U_s$	AC/DC 24V-240 V, 0/50/60 Hz < 3 W < 8 VA DC 20,4 - 297 V, AC 20 - 264 V
Input voltage	AC/DC 0-30/150/300/600 V, 80 - 120 V, $R_i = 500 \text{ k}\Omega$ , max. 600 V, max. 300 V to GND
Accuracy	DC $\leq 0,2\%$ AC $\leq 0,5\%$ (50/60 Hz) from full scale, drift < 0,02 %/K
Input current	AC/DC 1A, 5A, max. 7,5 A/4s, 25A/1s, 30 mΩ
Accuracy	DC $\leq 0,2\%$ , AC $\leq 0,5\%$ (50/60 Hz) from full scale, drift < 0,02 %/K
Measuring method/ Resolution	RMS (AC), Averaging (DC)/ 14 Bit
Output voltage	DC 0/2-10 V, load min. 1 kΩ
Accuracy	$\leq 0,3 \%$ from full scale, drift < 0,01 %/K
Resolution	11.6 Bit, < 3,1 mV
Output current	DC 0/4-20 mA, load max. 500 Ω
Accuracy	$\leq 0,3 \%$ from full scale, drift < 0,015 %/K
Resolution	11,6 Bit, < 6,1 μA
Error load	0,3 % of current x (250Ω - load / 250Ω)
Galvanic insulation	Supply voltage - input - output
Measuring time/ Averaging	45 ms + 20 ms x number of averages (1/2/8/16/32 values)
Test conditons	see "general technical information"
Rated ambient temperature range	-20 °C ... +50 °C
Housing dimensions (H x W x D)	Design K, 75 x 22,5 x 115 mm
Protection housing/terminals	IP 40 / IP 20
Attachment	35 mm standard rail or screws M4
Weight	app. 100 g