

Universal-Measuring-Transducer MU1001K

DC Voltage, Isolating Amplifier

MU1001K



Universal Measuring-Transducers MU1001K can measure DC-signals up to 300 V. Inputs 60/150/300 mV are measuring DC current.

Pre-set measuring-ranges can be selected by the user. 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 power-supply AC/DC 24-240 V the measuring-transducer can be connected to all common supply-voltages.

Inputs:

- \pm DC 0 - 300 mV (pre-set: 60/150/300 mV, \pm 60/150/300 mV)
- DC 0 - 10 V, \pm 10 V
- DC 0 - 300 V (pre-set: 20/50/100/200/300 V)

Zeros and Full Scales for more measuring-ranges can be freely selected by the user.

Outputs:

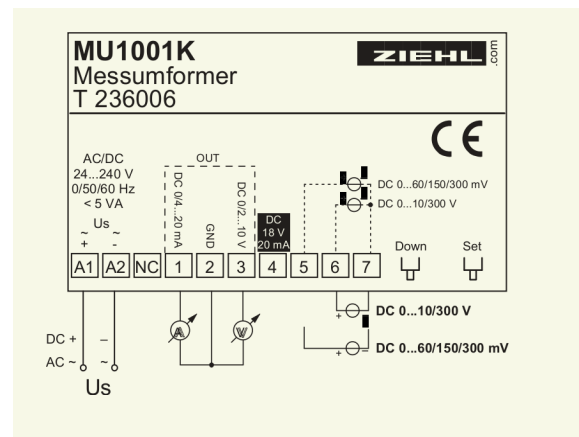
- DC 0/4-20 mA
- DC 0/2-10 V
- Insulation between inputs, outputs and supply-voltage

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

Order-number: **T236006**



Technical Data

Rated Supply Voltage U_s

AC/DC 24V-240 V, 0/50/60 Hz $< 3\text{ W} < 5\text{ VA}$
DC: 20,4 - 297 V, AC: 20 - 264 V

Measuring Input

\pm DC 10 V/DC 300 V, max. 300 V, 500 k Ω
 \pm DC 300 mV, max. 2 V, 10 M Ω
 $\leq 0,1\%$ from full scale
14 Bit

Accuracy
Resolution

Output Voltage

DC 0/2-10 V, load min. 1 k Ω
0,3 % from Fullscale, Drift $< 0,01\%$ /K
11.6 Bit, $< 3,1\text{ mV}$

Accuracy
Resolution

Output Current

DC 0/4-20 mA, load max. 500 Ω
0,3 % from Fullscale, Drift $< 0,015\%$ /K
11,6 Bit, $< 6,1\text{ }\mu\text{A}$
0,3 % of current x (250 Ω - load) / 250 Ω

Accuracy
Resolution
Error load

Galvanic Insulation

Supply voltage - Input - Output

Measuring Time
Reaction Time

$< 20\text{ ms}$
 $< 40\text{ ms}$

Test conditions

see "general technical informations"

rated ambient temperature-range

$-20\text{ }^\circ\text{C} \dots +65\text{ }^\circ\text{C}$, EN 60068-2-2 dry heat

Housing dimensions (h x w x d)

type 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