

# Measuring-Transducer for Potentiometers

MU100W for 0-500  $\Omega$  ... 0-10 k $\Omega$

## MU100W



Part number: T236041

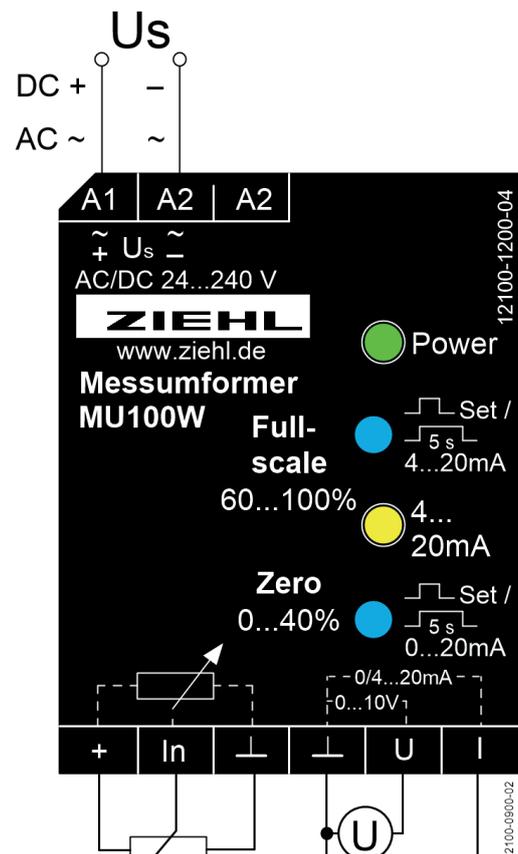
The MU100W measuring transducer converts the position of a potentiometer into a linear signal 0/4-20 mA respectively 0-10 V. Zero can be easily scaled 0...40 %, FullScale 60 ... 100 % of the range of the potentiometers by pressing a button.

The built-in universal power-supply AC/DC 24-240 V allows the connection to all common supply-voltages. The output delivers 0/4 ... 20 mA and 0 ... 10 V simultaneously.

Applications are the creation of adjusting commands or the detection of mechanical elements, e.g. flaps.

- Connection of a potentiometer 0...500  $\Omega$  to 0...10 k $\Omega$
- Zero adjustable 0 ... 40 % of Scale
- FullScale adjustable 60 ... 100 % of Scale
- Easy adjusting of zero and FullScale by pressing a button
- Analog output 0 ... 20 mA / 4 ... 20 mA
- Analog output 0 ... 10 V
- LEDs for display of operative state

- Universal supply AC/DC 24-240 V
- Housing for DIN-rail or wall-mount, 70 mm wide, mounting height 55 mm



## Technical Data

Rated supply voltage $U_s$	AC/DC 24V...240 V, 0/50/60 Hz, < 3 W, <5 VA
Tolerance DC	DC 20...297 V
Tolerance AC	AC 19...264 V
Measuring input	Resistance-potentiometer 0...500 $\Omega$ to 0...10 k $\Omega$
Measuring current/ -voltage	6,6 mA ... 330 $\mu$ /3,3 VA
Analog output	DC 0...10 V, min. 1 k $\Omega$ DC 0/4...20 mA, max. 500 $\Omega$
Error	< $\pm$ 1%
Temperature factor	0-10 V: < 0,01 %/K, 0/4-20 mA: < 0,015 %/K
Test conditons	EN 61010
Rated impulse withstand voltage	4000 V
Contamination level	2
Rated insulation voltage	250 V
Rated ambient temp. range	-20 ... +60 $^{\circ}$ C
Dimensions (h x w x d)	design V2: 90x35x58 mm, mounting height 55 mm
Weight	app. 130 g
Attachment	on DIN-rail 35 mm or with screws M4
Protection housing / terminals	IP 20 / IP 30