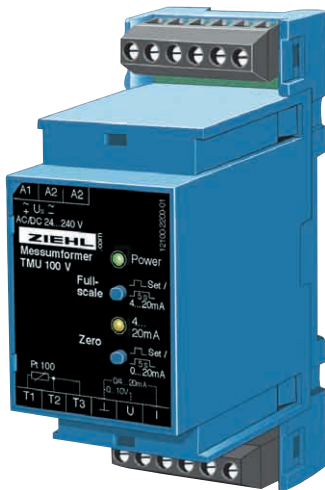


Measuring-Transducer for Temperature

TMU100V for Pt 100 (RTD)

TMU100V



Model TMU100 Pt100 measuring transducers are suitable for measuring temperatures with sensors Pt100 (RTD).

Zero and FullScale can be freely set within the whole range -199 ... +850 °C. To do this only resistors with the according value or a Pt 100-decade is connected. The adjustment is done by pressing a button.

The built-in universal power-supply AC/DC 24-240 V allows the connection to all common supply-voltages.

The Pt100- sensor can be connected in 2- or 3-wire connection.

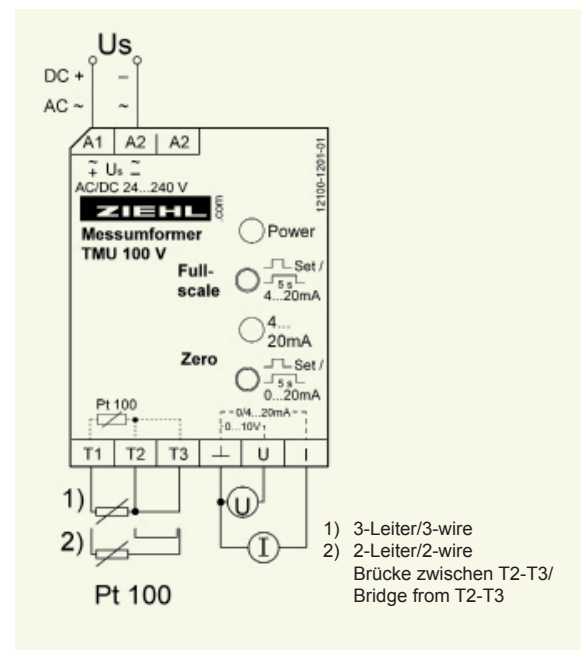
The output delivers 0/4 ... 20 mA and 0 ... 10 V simultaneously.

- Pt100-input 2- or 3-wire automatic compensation of
- line up to 500 Ω total resistance (sensor + line) Detection of sensor-break
- Easy adjustment of Zero and FullScale by pressing a button
- Wide measuring-range -200... +850 °C

- 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
- Option: Scaled ex works

Order-number

T236090



Technical Data

Rated supply voltage U_s
Adm. tolerance DC
Adm. tolerance AC

Measuring input
Temperature-range
Resolution
Tolerance
Temperature factor

Analog output

Error

Test conditons
Rated impulse withstand voltage
Contamination level
Rated insulation voltage
Rated ambient temp. range

Dimensions (h x w x d)
Weight
Attachment
Protection housing / terminals

AC/DC 24V...240 V, 0/50/60 Hz, < 3 W, <5 VA
DC 20...297 V
AC 19...264 V

Pt 100 EN 60751, 2-/3--wire, ≤0,8 mA
-200 ... +850 °C
0,1 K
± 0,5 % of measured value ±0,5 K
<0,03 %/K

DC 0...10 V, min. 1 kΩ
DC 0/4...20 mA, max. 500 Ω
< 0,3% of FullScale

EN 50178 / EN 60947
4000 V

3
250 V
-20 ... +60 °C

design V2: 90x35x58 mm, mounting height 55 mm
app. 130 g
on 35 mm DIN-rail EN 60 715 or with screws M4
IP 20 / IP 30