

TR02

Temperature Transmitter for Ambient Air

- Resistance thermometer and temperature transmitter
- PT1000 Measuring element
- For ambient air monitoring
- Special version on request



Description:

The devices of the model type series TR02 are calibrationable outside temperature measuring transducer with 8 switchable measurement ranges. The devices have either internal or external sensors. The output signal is either a 4...20 mA current or a 0...10 V voltage signal.

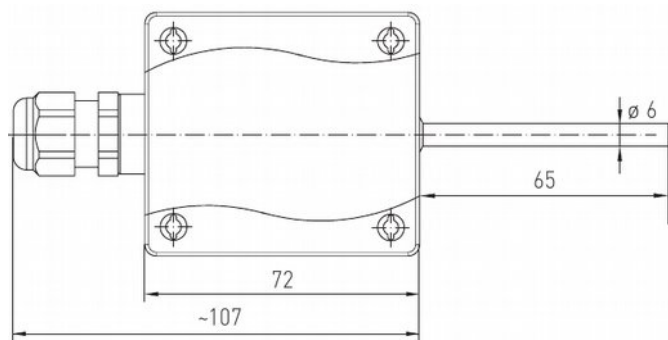
The entire electronic is placed inside a housing made of impact resistant plastic. The quick release fastener screws allow a quick and uncomplicated mounting. The devices can be delivered with or without a display.

Typical application:

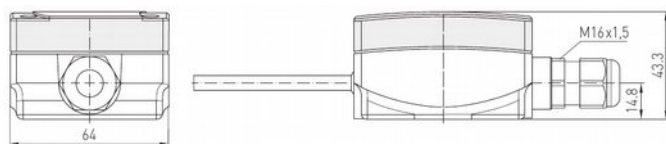
The devices of the model type series TR02 are used to measure the ambient temperature, the temperature in moist room areas, e.g. on external walls, in cooling or greenhouses, in industry areas and in agriculture. In the outdoor area the mounting is preferably done on the north side or a sheltered location.

In direct sunlight a sunscreen has to be used. The outdoor sensor are factory adjusted. A fine calibration by the user is possible through zero and offset adjustment.

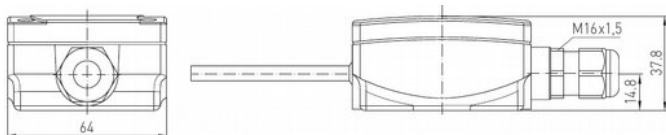
Models:



with LCD display:



Transmitter without display only:



Technical Data:

Power supply:	24 V AC/DC $\pm 10\%$ for 0...10 V 15...36 VDC for 4...20 mA
Power input:	< 1,0 VA at 24 VDC < 2,2 VA at 24 VAC
Output:	0...10 V, 3 wire, $\geq 5 \text{ k}\Omega$ load 4...20 mA, 2 wire load $[\Omega] = (U_b - 14 \text{ V}) / 0,02 \text{ A}$
Accuracy:	$\pm 0,4 \text{ K}$ at 25°C, other $\pm 0,8 \text{ K}$
Measuring element:	Pt1000, DIN EN 60751, class B
Cable threaded connection:	M16 x 1,5 with tension relief
Electrical connection:	0,14 – 1,5 mm ² screw terminals
Housing material:	Polyamide, 30% glass ball reinforced with quick release fastener screws
Protection class:	IP65 (EN 60529), III (EN 60730)
Norms:	RMV directive 2004/108/EC EN 61326:2006
Permissible humidity:	< 95 % r.H. non condensing
Ambient temperature:	-50...+80°C transmitter only -30...+70°C with LCD display
Measuring range:	-50...+150°C

Model Code:

Order number: **TR02.** **I.** **-020+150.** **0.** **0**

Temperature Transmitter
for ambient air

Output signal:

U = 0...10 V
I = 4...20 mA

Measuring range

(see table standard-measuring ranges):

-020+150 until +000+150
or special measuring range on request

Models:

0 = Measuring transmitter without on site display
1 = Measuring transmitter with LCD display

Options:

0 = Without
9 = Please specify in writing

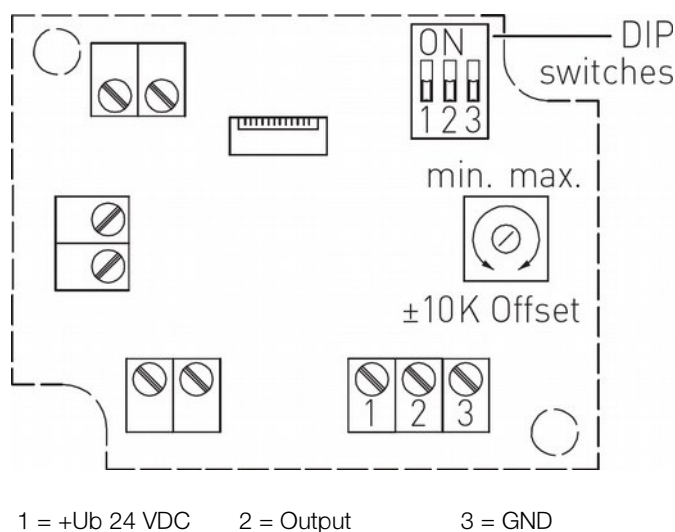
Standard-measuring range:

via DIP-switch configurable:

Measuring range [°C]	Measuring range code	DIP 1	DIP 2	DIP 3
-20...+150	-020+150	ON	ON	ON
-50... +50	-050+050	off	ON	ON
-20... +80	-020+080	ON	off	ON
-30... +60	-030+060	off	off	ON
0... +40	+000+040	ON	ON	off
0... +50	+000+050	off	ON	off
0...+100	+000+100	ON	off	off
0 +150	+000+150	off	off	off

Special measuring range on request

Electrical connection:



1 = +Ub 24 VDC 2 = Output 3 = GND



PKP Prozessmesstechnik GmbH
Borsigstr. 24 • D-65205 Wiesbaden
☎ +49 (0) 6122-7055-0 • 📠 +49 (0) 6122 7055-50
✉ info@pkp.de • 🌐 www.pkp.de

PKP Process Instruments Inc.
10 Brent Drive • Hudson, MA 01749
☎ +1-978-212-0006 • 📠 +1-978-568-0060
✉ info@pkp-usa.com • 🌐 www.pkp-usa.com