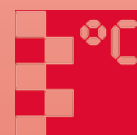


Thermostats for Industrial Applications

TER



- Switching range:
+10...+50 °C
- Housing material: aluminium
- Capillary tube: copper

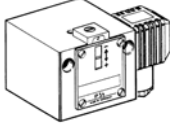
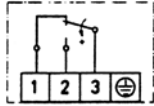


KOBOLD companies worldwide:

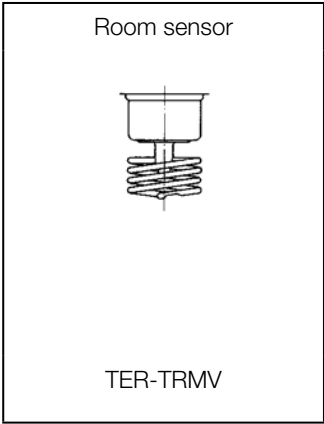
AUSTRALIA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHINA, CZECHIA, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, REPUBLIC OF KOREA, SPAIN, SWITZERLAND, THAILAND, TUNISIA, TURKEY, USA, VIETNAM

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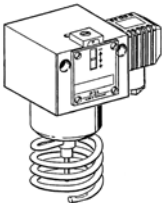
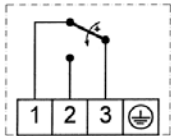
Technical Details

Switching devices	Normal version 
Switch housing	Aluminium die-cast GD Al Si 12
Switching function and connection drawing (applies only for version with micro-switch)	Floating change-over contact. With rising temperature switching over single-pole from 3-1 to 3-2 
Switch capacity (applies only for version with micro-switch)	8 A at 250 V _{AC} 5 A at 250 V _{AC} inductive 8 A at 24 V _{DC}
Installation position	Vertical or horizontal, preferably vertical
Protection IP 54	in vertical position
Electrical connection	Plug connection to DIN EN 175301
Cable entry	Pg 11
Ambient temperature	-15 ... +70 °C
Switch point	Adjustable on the spindle
Switching difference	Adjustable or not adjustable (see type overview)
Medium temperature	Max. 70 °C, short time 85 °C
Vibration strength	Up to 4 g no noteworthy deviations At higher vibrations, the switching difference reduces. Usage above 25 g is not permitted.
Insulation values	Overvoltage category III, contamination class 3, reference surge voltage 4000 V. The conformity to DIN VDE 0110 (01.89) is confirmed.

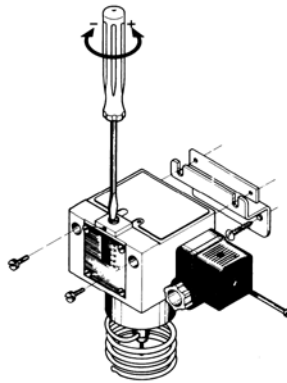
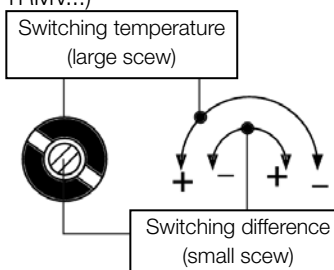
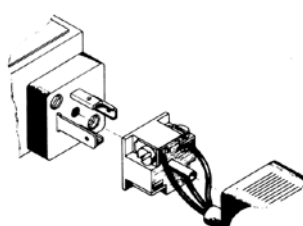
Sensor system

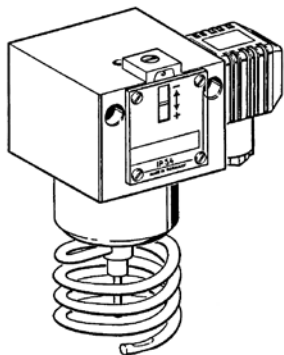


Switch units / additional functions / connection diagrams

Plug connection	Description	Connection diagram
	Normal version Microswitch, single pole changeover	

General technical information

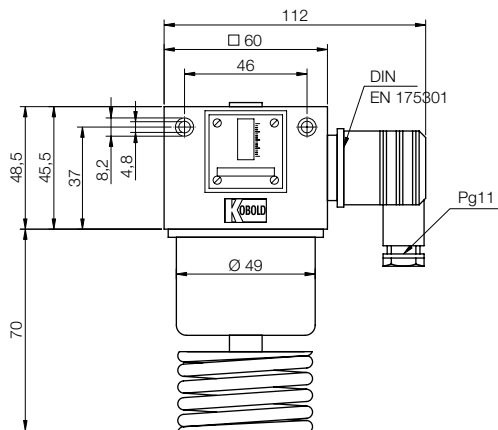
Adjustment of the thermostats	Adjustment to the lower switching point The desired value x_s corresponds to the lower switching point (on falling temperature), the upper switching point x_o (on rising temperature) is higher by the switching difference x_d .
Setting the switching temperature (desired value setting) 	The grub screw located above the scale is to be slackened off approx. 2 turns before making an adjustment and tightened up again after setting. The switching temperature is set by the spindle. The set switching temperature can be read off on the scale. Slight variations between the set value and the switching point are inevitable due to the tolerances and spreads in the characteristics of the sensors and springs, also to friction in the moving parts of the switch. The thermostats are as a rule set in such a way the desired value setting and the actual switching temperature coincide best in the middle range. Any possible divergences are uniformly distributed to either side. Turning to right: low switching temperature Turning to left: high switching temperature
Changing the switching difference (only on switching units TRMV...) 	The switching difference is changed by turning the threaded rod inside the setting spindle. The lower switching point is not changed by adjusting the difference, only the upper switching point is shifted by the amount of the difference. One revolution of the difference screw varies the switching difference by approximately 1/4 of the total differential range. Bear in mind when making the adjustment: Switching temperature: Turning to right: lower switching point Turning to left: higher switching point Switching difference: Turning to right: larger difference Turning to left: smaller difference
Electrical connection 	Plug connection according to DIN EN 175 301. Cable entry Pg 11, max. cable diameter 10 mm. Cable outlet possible in 4 directions - spaced 90° apart.
Mounting position	Preference is to be given, if possible, to the vertical mounting position. Protection IP 54 is guaranteed in accordance with the conditions of DIN 40050 for vertical mounting . The type of protection may be changed by a different mounting position.
Outdoor installation of the instruments	The thermostats can also be installed outdoor, if they are mounted in a vertical position. On temperatures below 0 °C take care that there can form no condensation at the sensor and inside the housing.



Description

KOBOLD room thermostats are suitable for industrial plant, for greenhouses, cowsheeds and warehouses, also for monitoring the maximum temperature in switchgear cabinets and relay stations. Room thermostats are supplied with TER-H 1 wall bracket.

Dimensions [mm]



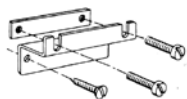
Technical Details

- Housing: Aluminium die-cast GD Al Si 12 to DIN1725, resistant to ammonian steam and seawater
- Mounting position: Optional
- Max. ambient temperature: 70 °C
- Max. temperature at the sensor: 70 °C
- Contact: Single-pole changeover
- Protection: IP 54 to DIN EN 40050 (in the case of vertical mounting)
- Installation: With TER-H 1 support bracket or with 2 screws (Ø 4 mm) bulk-head mounting
- Adjustment: Scale value corresponds with the lower switching point (with falling temperature), the upper switching point is higher by the switching differential
- Plug connection: By means of obliquely angled plug to DIN EN 175301 (3-pole + earth contact), cable entry Pg 11, max. cable diameter 10 mm. Cable outlet possible in 4 directions (spaced 90° apart)
- Switching temperature: Adjustable from outside with screw-driver
- Switching difference: Adjustable on TER-TRMV for values

Order Details:

Model	Range of adjustment	Switching difference (mean value)
TER-TRMV 150	+10 ... +50 °C	3 - 10 K (adjustable)

TER-H1

**Wall bracket model TER-H 1**

including fixing screws and plugs (Ø 6 mm).
Included as standard with model TRM thermostats.