| Zertifiziertes QM-System DIN EN ISO 9001 Zertifikat-Nr. 01017 | Electronic Temperature Switch for Liquids |  | measuring monitoring analysing |
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## Description

KOBOLD temperature switches of model TDD are used for economical measurement and monitoring of temperature. They are suited for applications where temperature must be monitored with a high degree of switching accuracy. A semiconductor, which outputs a digital signal to the evaluating electronics in $0.5^{\circ} \mathrm{C}$ steps, serves as sensor element.

The current measured value is displayed on a 3 -digit LED display. Two switch points, on-/off-switching delay and hysteresis are adjustable within the measuring range.

## Applications

- Compressors
- Mechanical engineering
- Plant engineering
- Pumps

Accessories: Electrical connection

| Description | Model |
| :---: | :---: |
| M12 2 1 box with terminal | ZUB-KAB-12D500 |
| M12 2 box with 2 m cable | ZUB-KAB-12K002 |
| M12×1 box with Quickon plug | ZUB-KAB-12Q000 |

## Technical Details

Housing cover:
Housing:
st. steel 1.4305
st. steel 1.4404 (compact version) st. steel 1.4305 (separate version)
Connection compact version:
G $1 / 2$ or $G 3 / 4$ male thread
st. steel 1.4404
option: $1 / 2$ NPT or $3 / 4$ NPT
Connection separate version:
Sensor:
$100 \mathrm{~mm}, 6 \mathrm{~mm}$, st. steel 1.4404
Cable:
Housing:
2.5 m PTFE with M12x1 plug M25x1.5 with counter nut
Principle of measurement: semiconductor

Display:
Resolution:

Max. temperature of measured medium:

Max. ambient temp.:
Max. pressure:
Power supply:
Current consumption:
Electrical connection:
Type of switching output:

\left.|  | PNP or NPN (factory set), |
| :--- | :--- |
|  | max. 300 mA, short-circuit proof |$\right\}$

Order Codes (Example: TDD-153 R4H2 00)

| Model |  |  |  | Version | Sensor length* |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Switching output 1 x PNP | Switching output 1 x NPN | Switching output 2 xPNP | Switching output $2 x$ NPN |  |  |
| TDD-153 | TDD-353 | TDD-553 | TDD-753 | $\begin{aligned} \mathrm{R} 4 \mathrm{H} 2 & =\mathrm{G} 1 / 2 ;-20 \ldots+120^{\circ} \mathrm{C} \\ \mathrm{R} 5 \mathrm{H} 2 & =\mathrm{G} 3 / 4 ;-20 \ldots+120^{\circ} \mathrm{C} \\ \text { N4H2 } & =1 / 2 \text { NPT; }-20 \ldots+120^{\circ} \mathrm{C} \\ \text { N5H2 } & =3 / 4 \text { NPT; }-20 \ldots+120^{\circ} \mathrm{C} \\ \text { D6H3 } & =\text { separate version; } \\ & \text { smooth sensor; }-50 \ldots+125^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 00=\text { short } \\ & 10=100 \mathrm{~mm} \\ & 20=200 \mathrm{~mm} \end{aligned}$ |

[^0]
## Dimensions

## Separate version short



Compact version long




[^0]:    *Separate version only with 100 mm sensor; maximum length at NPT-threads is 184 mm instead 200 mm

