The **KTR temperature probes** TE-PT-100 use a temperature sensor PT-100 according to DIN/IEC 751 class B to produce a resistor signal depending on temperature.

General Hints

Please read through these mounting instructions carefully before you set the temperature probe into operation. Please pay special attention to the safety instructions!
The mounting instructions are part of your product. Please keep them carefully and close to the temperature probe.

Safety and Advice Hints

STOP	**D A N G E R !**	**Danger of injury to persons.**
!	**C A U T I O N !**	**Damages on the machine possible.**
☞	**A T T E N T I O N !**	**Pointing to important items.**

General Hints to Danger

STOP

D A N G E R !
With the assembly, operation and maintenance of the temperature probe it has to be ensured that the entire drive train is protected against unintentional connection and the machine is currentless. You can be seriously hurt by hot hydraulic oil. Please make absolutely sure to read through and observe the following safety instructions.

- All operations on and with the temperature probe have to be performed taking into account "safety first".
- Please make sure to disconnect the current supply and the power pack before you perform your work on the temperature probe.
- Protect the power pack and the current supply on the temperature probe against unintentional connection, e. g. by providing hints at the place of connection or removing the fuse for current supply.
- Secure the temperature probe against unintentional contact (danger of burning). Please provide for the necessary shieldings and covers.

Proper Use

You may only assemble, operate and maintain the temperature probe if you

- have carefully read through the mounting instructions and understood them
- and if you are authorized and have proper skills

The temperature probe may only be used in accordance with the technical data. Unauthorized modifications on the temperature probe design are not admissible. We do not take any warranty for resulting damages. To further develop the product we reserve the right for technical modifications. The temperature probe described in here corresponds to the technical status at the time of printing of these mounting instructions.

Hints

- The device must not be used in such situations in which human lifes depend on the proper operation of the device (e. g. medical applications, explosive applications).
- Please note the corresponding specifications of the country of use concerned for the operation and installation of electric machines.
- Please make sure to adhere to the permissible data (see „technical data“).
- For the waste disposal please note the legal provisions.

Assembly

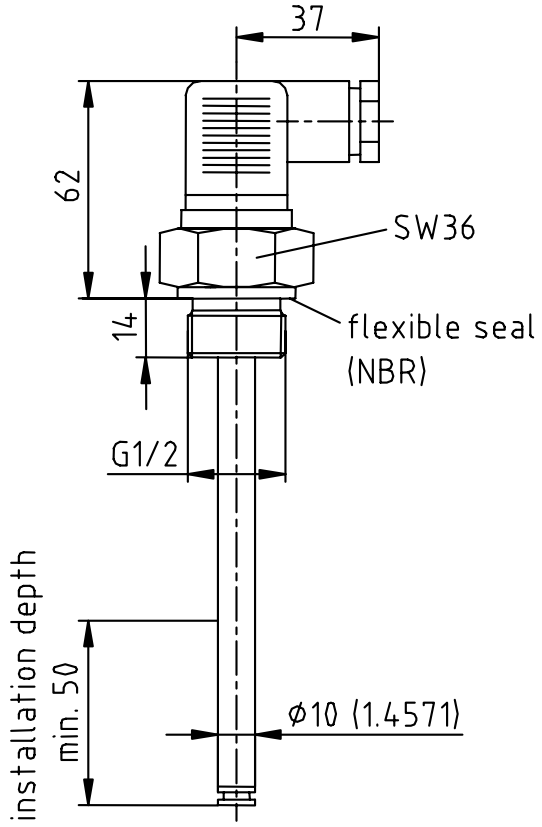
ATTENTION!
The corresponding safety provisions of the place of application have to be adhered to!

The max. tightening torque of the inserted thread is 25 Nm.
For the installation please make sure to have a smooth and clean sealing surface.

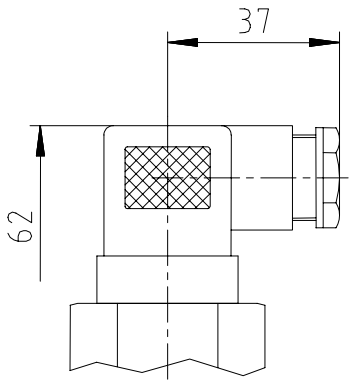
CAUTION!
For the installation please make sure to have a smooth and clean sealing surface.

The temperature probe may only be screwed into the thread to suit.
Sealing is effected by an elastic seal ring.

Dimensions of machine



picture 1: dimension of temperature probe



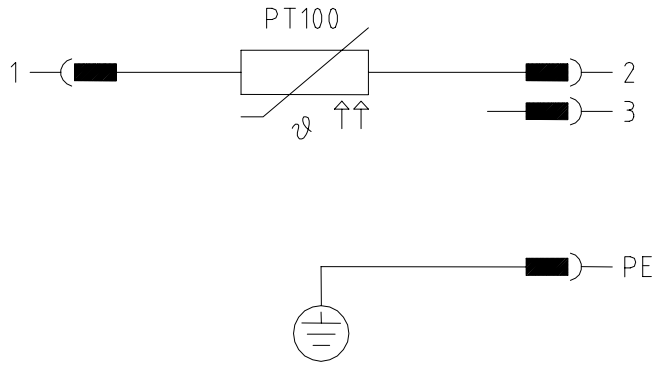
picture 2: dimension of plug

Technical Data

inserted thread	G 1/2
max. pressure	10 bar → dipping sleeve of stainless steel
operating temperature	- 40 °C to + 100 °C
max. S-wire current PT-100	1 mA
measuring range	- 40 °C to + 100 °C

Basic values of precision resistance PT-100

°C	Ohm
0	100,00
10	103,90
20	170,79
30	111,67
40	115,54
50	119,40
60	123,24
70	127,07
80	130,89
90	134,70
100	138,50



picture 3: connection diagram