

## temperature measurement

### user manual resistance thermometer type WTR 190-top-hat rail

#### safety instructions !!!

##### intended use of the product

- The sensor has been designed exclusively for the intended use described here or in the data sheet and may only be used in this way.
- The technical specifications contained in these operating instructions must be observed.
- Improper handling or operation of the device outside of its technical specifications requires the device to be taken out of service immediately and an inspection by promesstec.
- When the device is transported from a cold into a warm environment, the formation of condensation may result in the device malfunctioning.
- Before putting it back into operation, wait for the device temperature and the room temperature to equalise.

*The manufacturer shall not be liable for claims of any type based on operation contrary to the intended use!!*

##### staff qualification

Improper handling can result in considerable personal injury and damage to equipment. The activities described in these operating instructions may only be carried out by skilled staff who have the appropriate qualifications. For installation and starting of the sensor, the relevant regulations and directives of the country and the norms must be observed. Especially during installation of the sensor, it is possible, depending of the use, to come into contact with aggressive media. The safety instructions must be observed. There is danger to life if live parts are touched. Electrical installation and commissioning may only be carried out by qualified and skilled personnel.

##### special hazards

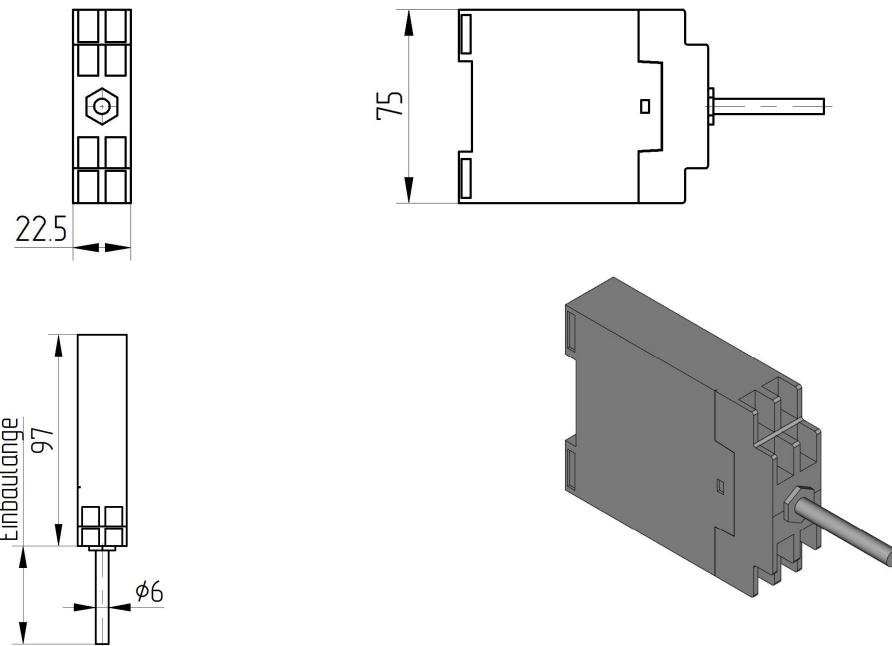
Residual media in dismantled devices can result in a risk to personnel, the environment and equipment. Sufficient precautionary measures must be taken here. Do not use the instruments in safety or emergency stop devices. Incorrect application or operation of the instrument can lead to injuries. Depending on the application, aggressive media with extreme temperatures and high pressure or vacuum may be present at the instrument in the event of a fault. We recommend installing and removing the device only at ambient temperature and in a pressureless mode.

##### hazards when operating the device

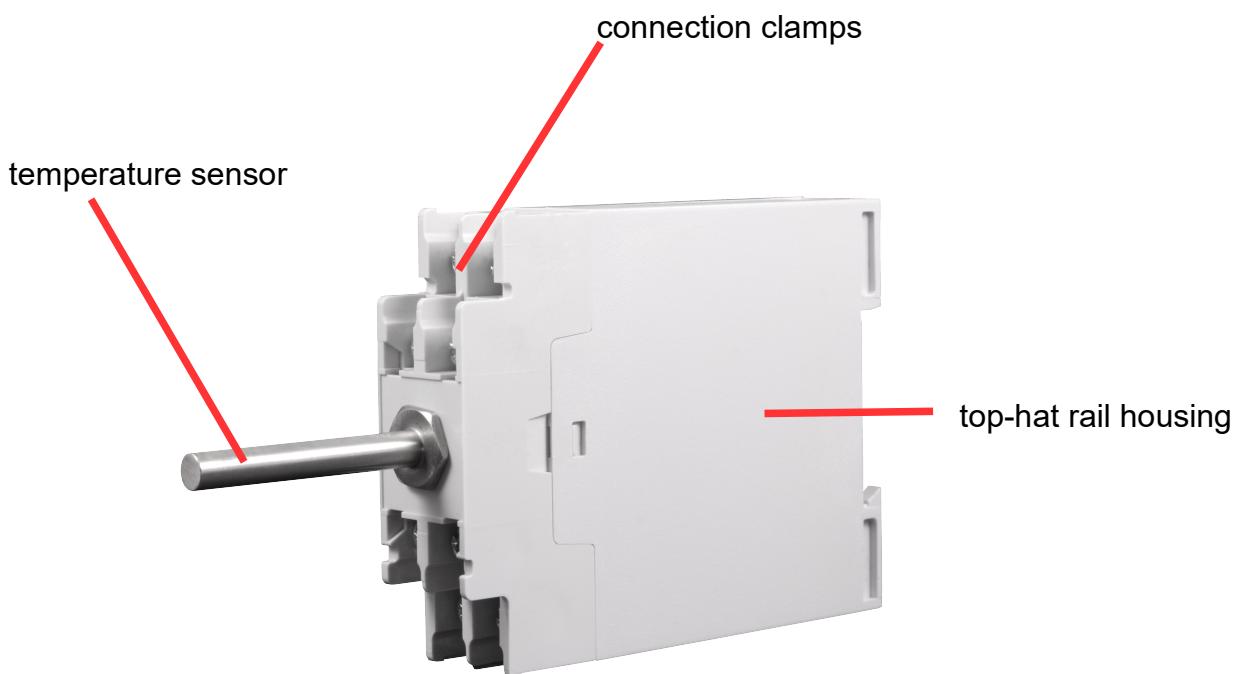
When cleaning your system with high-pressure cleaners, steam cleaners, etc., make sure that the WTR 190 top hat rail does not come into contact with moisture. If the temperature falls below the dew point, condensation may form in the connection chamber of the device. For such extreme applications, contact our sales and technical support before commissioning.

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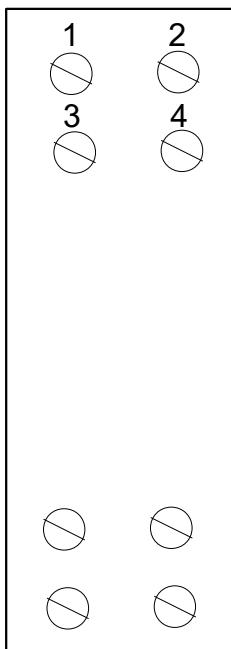
design sensor



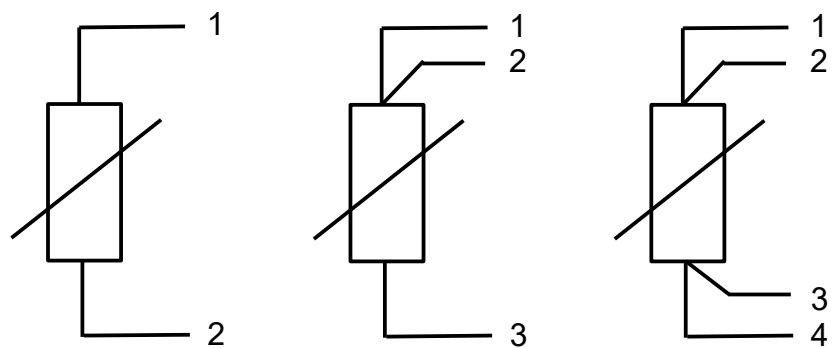
## temperature measurement

connection WTR 190-top-hat rail...

clamp arrangement



connection passive sensors PT100

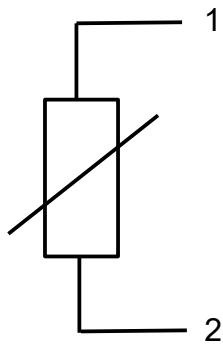


Info: The lower clamps are not assigned.

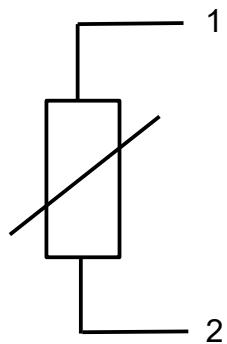
connection passive sensors various

connection active sensors

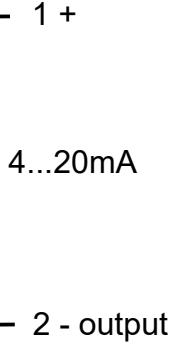
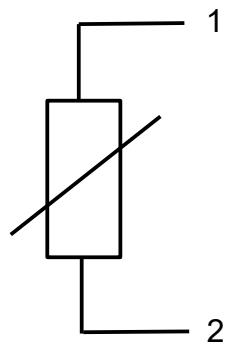
PT 1000



NI 1000



KTY...



You can find the datasheet and the user manual on our homepage.

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### mounting instructions !!!

#### mechanical installation

- The WTR 190 top-hat rail is a surface-mounted sensor that can be snapped onto the top-hat rail. Use a top-hat rail according to DIN EN60715 for mounting.
- After mounting the sensor, check the strength of the screw clamps.

#### electrical mounting

- The electrical installation must be carried out in a de-energized status.
- Pay attention to the connection assignment.

### important information !!!

#### return and repair

The promesstec sensors have a modular design. This allows us to repair and overhaul defective devices. To do this, send the device to promesstec. You will find a return form with the information to be provided on our homepage under „technical information“.

#### disposal of the devices

Dispose of devices, components and packaging in an environmentally friendly manner in accordance with the waste treatment and disposal regulations typical for the country. Pay attention to waste separation and the recycling of high-quality materials such as stainless steel, etc.

#### further documentation

These operating manual ad the datasheets can be found as a file on our homepage under the respective devices. The documentation is available in German as well as in English. Other languages are available on request.

