

—— Sensor and controller ——

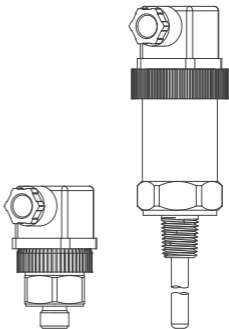
- Flow
- pressure
- temperature
- level
- position

KATU 卡图

Operation instruction

Mechanical temperature switch

TC Series



Safety statement

Before installing this device, please read this document to ensure that the product is suitable for your application and is not limited in any way;

Failure to follow operating instructions or technical documentation may result in personal injury or property damage;

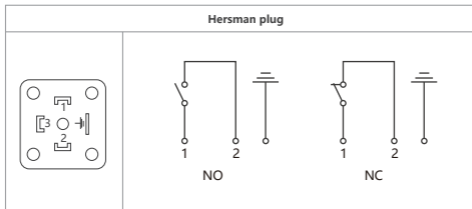
Check compatibility of the product material with the medium under test in all application ranges;

The equipment is only used as the tested medium, and it must only be ensured that the equipment is correctly used to ensure long-term stable operation and that the tested medium will not cause damage to the tested part of the product;

! The responsibility for determining whether the measurement sensor is suitable for the application lies with the operator, and the manufacturer accepts no responsibility for the consequences of improper use by the operator. Improper installation and use of the sensor results in invalid claims under warranty.

Flow sensors monitor the medium flow of fluids

Precautions: Beware of personal injury, overpressure danger!



Disconnect the power supply: Before connecting cables, disconnect all power supplies related to the temperature switch to ensure personal safety and avoid electric shock.

Confirm the model specifications: Carefully check the temperature switch model, rated voltage, rated current and other parameters to ensure that they match the actual circuit and device to prevent the temperature switch from working properly or even damaging the device due to parameter mismatch.

Check the circuit: Check whether the wire connecting to the temperature switch is damaged, aging, short circuit and other problems. If there is a problem, replace the wire in time to ensure good electrical performance of the line.

Installation location selection

Avoid interference sources: Keep away from heat sources and heat dissipation sources, such as heating and air conditioning units, to prevent high or low local temperatures from affecting the measurement accuracy.

Good air circulation: to be installed in a position where the air circulation is smooth, to ensure that the surrounding air can flow freely, so that the temperature switch can accurately sense the ambient temperature.

Easy operation and maintenance: To take into account the convenience of later operation and maintenance, the installation position should be easy to access, convenient for staff to debug, overhaul and replacement operations, generally about 1.5 meters from the ground is appropriate.

Installation method points

Install firmly: Use appropriate installation tools and accessories to firmly fix the temperature switch on the installation position to prevent loosening due to vibration, collision and other reasons, affecting the accuracy and stability of temperature induction.

Correct installation direction: Installation in strict accordance with the direction required by the product manual, usually the temperature sensing element needs to be in full contact with the measured medium or environment to ensure accurate temperature measurement.

Avoid damage: During the installation process, be careful to avoid damage to components such as the shell and probe of the temperature switch. Otherwise, the internal structure of the temperature switch may be damaged, affecting its normal operation.

Line connection item

Correct wiring: Connect power cables and control cables accurately according to the wiring diagram of the temperature switch. Pay attention to distinguish between positive and negative terminals and terminals with different functions to ensure that the wiring is firmly connected to avoid problems such as virtual connection and short circuit.

Cable selection: Select cables with appropriate specifications based on the operating voltage and current of the temperature switch to ensure that the cable carrying capacity meets requirements and to prevent accidents caused by cable overload.

Line protection: The proper protection of the connected line, such as the use of line slots, lines, etc., to prevent the line from mechanical damage, corrosion, etc., but also can play a role in neat wiring.

Other notes

Suitable environment: The installation environment must meet the operating environment requirements of the temperature switch, including the temperature range and humidity range.

Check before installation: Before installation, check the appearance and function of the temperature switch to ensure that it is not damaged or faulty, and all performance indicators meet the requirements.

Coordination with other equipment: If the temperature switch is used in conjunction with other equipment, such as heating equipment, cooling equipment, etc., ensure that the parameter Settings and working logic between them are coordinated to achieve the desired control effect.

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