

THERMOSTAT TH 473

Description

Thermostat TH 473 is made as one unit. Sensor and electrical switch system are assembled, adjusted and enclosed in the thermostat body. To install it, use thread M22x1.5 on the thermostat body and hexagon head OK 27. Connecting terminals are flat pins 6.3x0.8 mm that are electrically insulated from the thermostat body. Thermostat head with flat pins is connected permanently with thermostat body. Thermostat is supplied with sealing ring diameter 22x27.

Installation

Installation and connecting of thermostat into electrical circuit can be done only by qualified person. Installation need to be done according to following recommendations:

- Thermostat will be fastened to an opening with thread M22x1.5 that must be connected with grounding electrode, using wrench no. 27, moment of maximum 50 Nm. Screwing and fastening can't be done by gripping of flat pins on head of switch
- Fastening thread is M22x1,5 6h
- Connecting to electrical circuit is performed using flat pins connection size 6.3x0.8 according to ČSN EN 61 210
- Thermostats should be built into equipment designated by this manual (appliance class I) in a way that clamps are under non removable case
- Connecting clamps has to be in regular environmental AB5, AE1, AN1, BE1.
- Body of switch "sensor" cannot be in contact with aggressive substances that corrode brass
- Connecting thread has to be grounded

Intended usage

Thermostat cannot be used as a main switch. Thermostat TH 473 is designed along with other devices to maintain water temperature in solid non flow through water boilers its nominal voltage in circuit operated by TH is 100 mV. Any working position of thermostat is suitable. Other use need to be consulted with manufacturer. After installation of TH

Influence on other products

As a result of contacts activity, short-term fluctuation of voltage on contacts occurs that is superposed in a shape of wave of power supply.

Technical data

Thermostat is manufactured in version connecting (Z) or disconnecting (R).

Connecting temperature	30 to 118°C
Nominal contact load	100 mV max. 0,5 A ss
Vibration resistance	5 g
Weight	55 g
Max temperature - temporary	125°C
Environment temperature	(-40 ÷ +90)°C
Lifetime	5 000 cycles
Transitional resistance	max. 8mΩ

Settings accuracy	Sensitivity	
	4 ÷ 18°C	4 ÷ 12°C
± 3°C	A	B

Storage conditions

The thermostats can be stored in closed ventilated areas in the temperature range 0-40°C with a relative humidity of max. 80%. Storage and handling must not damage the threads, sealing surfaces and connecting couplings.

Disposal

Dispose of the TH as follows: Take the TH to a scrap yard.

Possible minor faults and their removal

Possible minor faults on TH 473 are removed exclusively by the manufacturer.

Warranty

If the thermostat is placed and used in accordance with the instructions given in the installation and operating instructions, the manufacturer provides warranty according to current law, unless otherwise agreed.

The manufacturer will refuse warranty repair if the device has been damaged:

- During transport and storage by the customer or his customers
- During assembly or dismantling into the customer's equipment, or his customers
- During unprofessional handling and installation in a device other than that specified in the instructions
- In case the TH has been exposed to environments other than those specified in the manual

Warranty and post-warranty repairs

Warranty and post-warranty repairs are provided by manufacturer. Pack the product and send it to address:

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