

THERMOSTAT TH 480

Description

The thermostat forms a single unit. The sensor and switching system are assembled, adjusted and secured on a brass housing. On the body there is an OK 29 hexagon and an M22x1.5 thread, which is used to fix the thermostat in the designated hole. The connection clamps are 6.3x0.8mm flat pins. The connection terminals are electronically isolated from the thermostat body. The thermostat is supplied with a 22x27 sealing ring.

Installation

The installation and connection of the thermostat to the electrical circuit may only be carried out by a person with a minimum qualification according to decree no. 50/1978 min. §6 or by a professional service worker. The following recommendations must be followed during installation:

- Put a flat sealing ring on the thermostat sensor 22x27x1,5
- The thermostat is fixed in the hole with thread M22x1.5, which must be connected with a ground wire, using wrench no. 29, with a torque of max. 50 Nm. Screwing and fixing mustn't be done by gripping the flat pins in the switch head
- The fastening thread is M22x1,5
- Connection to the electrical circuit is made with flat pins size 6.3x0.8
- Install the thermostat only in the equipment specified on these operating instructions (class I) by placing the terminals under non-removable cover
- The connection terminals (switching gear) must be in a normal environment with the specified tolerances – ambient temperature 0°C – 99°C, AE1, AM1, AN1, BE1. The switch body "sensor" must not come into contact with aggressive substances that react corrosively to brass
- The mounting thread must be grounded

Intended usage

The thermostat mustn't be used as the main switch. The TH 480 thermostat is intended, together with other equipment, to maintain the temperature of water in fixed non-flow water heaters permanently connected to a fixed line whose nominal single-phase voltage does not exceed 230 V. The operating position of the thermostat is arbitrary. Consult the manufacturer for other uses. After installing the TH, follow the instructions in the manual of the device in which the TH is installed.

Impact on other products

Due to the operation of the contacts at TH, there is a short-term fluctuation of the voltage on the contacts, which is superposed to the power supply wave shape.

Technical data

The thermometer is available in expanding (R) or closing (Z) version.

Ingress protection		IP 00
Nominal opening temperature		35 ± 97°C
Sensitivity		4 ± 18°C or 4 ± 12°C
Weight		70 g
Max value of transient resistance during and after end of life		100 mΩ
Resistance to transient short-time temperature rise		110°C
Rated voltage and current		230V, 4A~ 230V, 1A~ 230V, 1A~, cosφ=0,65
Lifetime	230V, 4A~	10 000 cycles
	230V, 1A~	50 000 cycles
	230V, 1A~, cosφ=0,65	10 000 cycles

Settings accuracy	Sensitivity	
	4±18°C	4±12°C
± 3°C	A	B
± 2°C	C	D

Storage conditions

Storage can be done in closed ventilated areas in the temperature range 0-40°C with a relative humidity of max. 80%. Storage and handling mustn't cause mechanical damage to the instrument. The thermostats must be handled gently, without strong shock and impact. The storage room must be free of harmful gases.

Disposal

This device is subject of a special waste management regime under a Waste Act as amended.

Possible minor faults and their removal

Possible minor faults 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 manual, the manufacturer provides a warranty according to the current law, unless otherwise agreed:

- During transport and storage by the customer or his customers
- During assembly or dismantling on the equipment of the customer or his customers
- In case of improper handling and installation in equipment other than is specified in the instructions
- If the thermostat has been exposed to an environmental other than specified in instructions

Warranty and post-warranty repairs

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

APATOR POWOGAZ CZECHIA s.r.o.

Havlíčková 919/24

787 01 Šumperk

Tel.: +420 583 718 261

E-mail: prodej@metra-su.cz

www: www.metra-su.cz