

Typ: JTF-1



Art.-No.: E6090301

Features:

single-stage frost protection thermostat, mechanical, surface-mounted, -10...12°C, TR, 6m, Toggler, 24-230 VAC, 15(8)A, hysteresis approx. 1K

Application:

Securing hot water registers against freezing. The frost protection thermostats JTF-21 to JTF-25 have two switch outputs that allow for intervention in the system before the critical point is reached. All the devices are intrinsically safe and offer a sealable setpoint configuration.

The capillaries, with the exception of JTF-3/JTF-4, are active over the entire length. The device gets actuated when about 30 cm of the capillary (or approx. 60 cm capillary in the case of 12-m variants) reach the defined value.

JTF-1 to -25:

For temperature measurement of non-aggressive gases. The assembly clamps JZ-05/6 M (metal) or JZ-05/6 K (plastic) should be used for bracing the capillaries against the heat register.

JTF-3/-4 (additional application):

The SW-200-12 protecting coil is to be used for temperature measurement of non-aggressive gases in the duct; for temperature measurement in non-aggressive fluids, the TH-140 immersion sleeve is to be used, and in aggressive fluids, the NTH-140 immersion sleeve.

Type testing by TÜV in accordance with DIN EN 14597

Technical Data:

Number of outputs:	2
Number, control range:	1
Output signal:	switching
External setting:	yes
Rated impulse voltage:	4000 V
Operating voltage:	none
Intrinsic safety:	the frost protection function is also triggered in the event some of the medium filled into the capillary sensor line escapes
setting range to:	12
setting range from:	-10
Electrical connection:	Screw-type terminals
Colour of housing:	grey (like RAL 7035)
Sensor:	gas-filled capillary, active over its entire length
Sensor material:	Cu
Function type:	TR
Hysteresis:	approx. 1 K
Capillary length:	6,0 m
Storage temperature:	-10...+55 °C
Material of housing:	Lower part metal, upper part plastic
max. sensor temperature:	200
max. switching voltage:	230 VAC, 50 Hz
max. switching current:	15 (8) A
Medium:	Air, not aggressive
min. switching voltage:	24 VAC, 50 Hz
min. switching current:	150 mA
Installation/fastening:	Wall mounting, controller housing must be fitted in such a way that it is not subjected to any temperature that is less than the scale value that has been set
Surface quality:	matt
potential-free:	yes
Control range up to:	12
Control range from:	-10
Control function:	Heating or cooling
Switching element:	Microswitch
Switching contact:	Changeover
Switching power:	3450 W
Degree of protection:	IP 40
Protection class:	I
Safety and EMC:	according to DIN EN 60730
Scale - degrees Celsius:	yes

Set point adjuster: yes
Ambient temperature up to: 55
Ambient temperature from: -10
Degree of fouling: II
Permissible atmospheric humidity: max. 95% r.h., non-condensing

Circuit Diagram:

