

Frost protection thermostat JTF-1 ... -25

Capillary system, 1 or 2 stages, TÜV tested, switching type



Technical data

Switching difference:	15 (8) A, 24–250 V~, min. 150 mA at 24 V~
Switching difference:	1 K
Control range:	–10... +12°C
Contact:	1 or 2 microswitches as potential-free changeover contacts
Degree of protection:	IP 40, W types: IP 65
Protection class:	I
Ambient device temperature:	–10... +55°C, 1 or 2 microswitches as potential-free changeover contacts
Ambient temperature:	max. 200°C
Sensor:	gas-filled, made of Cu, active over its entire length
Colour:	grey (RAL 7035) JTF- ... W: grey

TÜV type tested acc. to DIN 3440

Reg. no.: TW 65401 (JTF-1, -3, -5), STB 65501 (JTF-2, -4, -6)

TÜV type test acc. to DIN EN 14597 currently performed

Note:

The installation clips, the dip sleeves and the protective spiral are not included in the scope of the delivery and need to be ordered separately.

Application

Especially suited to ensure the protection of hot water coil heating systems against freezing. The frost protection thermostat models JTF-21 to JTF-25 are equipped with two switching outputs that provide the option to act on the system already in advance of the attaining of the corresponding danger point. All devices are fail-safe and dispose of a lead-sealable set value setting facility.

In each case, the capillary tubes are active over their entire length. The device responds if the adjusted scale value is attained over a length of approx. 30 cm 60 cm respectively (with 12 m variants).

JTF-1 bis -25:

Specially suited for the measuring of temperatures in non-aggressive gases. The bracing of the capillary tubes in front of the coil heating system can be realised by means of installation clips (JZ-05 / 6M (metal) or JZ-05 / 06 K (plastic)).

JTF-3 / -4 (additional application):

The protective spiral SW-200-12 is determined for use with all temperature measuring tasks within non-aggressive types of gas that flow in conduits, while the dip sleeve TH-140 is determined for all measuring tasks within non-aggressive fluids. The application of the dip sleeve type NTH-140 is required when using the device for the measuring of temperatures in aggressive fluids.

Type	Item No.	Length of capillary	Equipment	Sensor bulb	PG
One-stage					
JTF-1	E 6090301	6.0 m			C
JTF-1 / 12	E 6090328	12.0 m			C
JTF-1W	E 6090014	6.0 m	IP 65		C
JTF-2	E 6090308	6.0 m	external manual reset		C
JTF-2 / 12	E 6090329	12.0 m	external manual reset		C
JTF-3	E 6090309	1.8 m	also for use on the water side	9.5 x 76 mm	C
JTF-3 W	E 6090065	1.8 m	IP 65, also for use on the water side	9.5 x 76 mm	C
JTF-4	E 6090310	1.8 m	external manual reset, also for use on the water side	9.5 x 76 mm	C
JTF-5	E 6090311	3.0 m			C
JTF-6	E 6090040	3.0 m	external manual reset		C
2-stage: 1st stage emits a signal at 5 K before the attaining of the switch-off point					
JTF-21	E 6090320	6.0 m			C
JTF-21 / 12	E 6090330	12.0 m			C
JTF-21W	E 6090283	6.0 m	IP 65		C
JTF-22	E 6090322	6.0 m	external manual reset		C
JTF-22 / 12	E 6090321	12.0 m	external manual reset		C
JTF-25	E 6090324	3.0 m			C

Accessories: Installation clips (page 159 – 160), dip sleeves (page 156), protective spiral (page 154)

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