

Capillary thermostat

for air ducts

TKM2D



Capillary thermostat for control and monitoring of air duct temperatures.

- Switch-over contact AC 250 V / 10(2) A
- Measuring range $-10 \dots 35 \text{ }^\circ\text{C}$

Use

The TKM2D capillary thermostat is typically used for monitoring the frost temperature in air ducts. When the duct temperature rises to the preselected setpoint the thermostat switches over.

Ordering

The capillary thermostat and any accessories required must be ordered separately. Please state quantity, names and type designations when ordering.

Example:

1 capillary thermostat TKM2D and 1 pocket Z620

Technical design

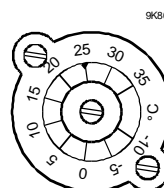
The capillary thermostat housing is made of plastic and is equipped with a removable cover, which is fixed with 2 screws. The housing is fixed to a metal mounting plate.

The sensor in the capillary thermostat operates according to liquid expansion principles.

Adjustments

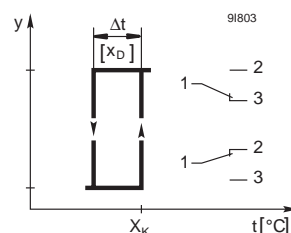
To adjust the two settings, remove the housing cover.

Switching differential Δt
adjustable $2 \dots 6 \text{ K}$



Setpoint X_k
adjustable $-10 \dots 35 \text{ }^\circ\text{C}$

Operating diagram



Accessories

The correct capillary supports (FK-TZ1) should be used for mounting the sensor.

Z197 Duct support for TKM2D probe (with mounting instructions, Ref. 35207)

Z620 Stainless steel pocket (V4A) for probe, 400 mm long
(with mounting instructions, Ref. 35195)

FK-TZ1 Capillary supports (set of 6 pieces)

Mounting notes

Mounting instructions (Ref. 35199) are enclosed with the thermostat.

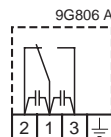
The thermostat housing is fixed to the outside of the air duct. The sensor probe of the thermostat, TKM2D, is mounted in a suitable position in the air duct using the duct support Z197. To prevent damage to the capillary, a minimum bending radius of 20 mm must be ensured. Mounting is easier if the FK-TZ1 capillary supports (set of 6 pieces) are used.

Technical data

Output	SPDT voltage-free
Contact rating	AC 250 V Max. 10 A resistive Max. 2 A inductive, $\cos \varphi > 0.2$
Voltage against earth	Max. AC 250 V
Measuring range	-10 ... 35 °C
Switching differential Δt	2 ... 6 K, adjustable
Mounting position	any
Dimensions (W x H x D)	60 x 120 x 65 mm
Probe	135 mm long, \varnothing 7 mm
Capillary length	approx. 2400 mm (incl. probe)
Protection class	I (VDE *)
Protection standard	IP54 to IEC529
Ambient temperature	
- Housing top	max 100 °C
- Sensor	max 10 % above mesured value
Weight (incl. packaging)	0.52 kg
Conformity	Meets the requirements for CE marking

Connection terminals

Contact position "Cold"



Caution

Observe the technical data for the switching contacts: max. AC 250 V / 10(2) A

Dimensions

All dimensions in mm

