SIEMENS 1<sup>778</sup>

# **Duct temperature sensor**

**FK-TP/200** 

for HVAC systems



Duct temperature sensor for heating, ventilation and air conditioning systems

- For use with controllers with Pt100 sensor inputs
- In conjunction with MULTIREG and INTEGRAL RS.

Use

The FK-TP/200 duct temperature sensor can be used in air ducts for heating, ventilation and air conditioning plants. It can be used for high accuracy temperature measurement over a wide range with controllers equipped with a Pt100 sensor input, e.g. controllers from the MULTIREG and INTEGRAL RS ranges.

#### **Ordering**

When placing an order, please specify the quantity, product description and type code.

#### Example:

#### 2 duct temperature sensors FK-TP/200

# Equipment combinations

The FK-TP/200 duct temperature sensor can be used with all controllers which can process the measured value from a Pt100 sensor, especially controllers from the MULTIREG and INTEGRAL RS ranges.

#### **Technical design**

The Pt100 temperature sensor is fitted with a platinum measuring element with a positive temperature coefficient (PTC). The measured-signal /temperature relationship is linear. See data sheet 1714 for technical information on the Pt100 sensor element.

#### Mechanical design

The duct temperature sensor FK-TP/200 consists of a sensor probe with a connecting head and the inserted PT100 measuring element. The cable is connected via a PG16 cable gland.

#### **Mounting notes**

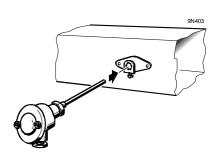
The duct sensor FK-TP/200 should be mounted in the middle of the air duct.

A mounting flange is supplied.

The PG16 screwed cable fitting should point downwards. (The cable must be connected downwards so that it leads away from the bottom.)

The connecting cable must be long enough to allow mounting and dismounting of the connected

sensor without loosening the cable connections.



#### **Technical data**

Measuring range - 40 ...180 °C

Pt100 to IEC751, Class B Measuring element

< 100 s in air, moving at 1 m/s (to VDI/ VDE3522) Response time (0.632-value)

Suitable media Air and mildly corrosive gases

Material Cast aluminium

Probe Stainless steel V4A (1.4571) Yellow passivated steel plate, tinned Flange Electrical connection 2 screw terminals for max. 2.5 mm<sup>2</sup>

Cable gland PG 16

Temperature range Max. temperature at connecting head 100 °C

Protection standard IP54 to IEC529

Weight (incl. packaging) 0.5 kg

Connecting head Shape B to DIN43729 Sensor probe Immersed length 200 mm

Probe diameter

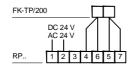
Wall thickness Approx. 0.5 mm

Conformity Meets the requirements for CE marking

### Connection diagrams

#### Four-wire connection

## Two-wire connection 920817 C

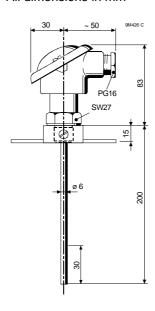






#### **Dimensions**

#### All dimensions in mm



#### Flange

