SIEMENS



Immersion temperature sensor

FT-TP/100 FT-TP/400

for HVAC systems

Immersion 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 FT-TP/... immersion temperature sensors can be used in pipe systems for HVAC systems. They are suitable 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.

Type summary

2 types are available, distinguished only by the length of the probe.

FT-TP/100	Immersion temperature sensor	length 100 mm
FT-TP/400	Immersion temperature sensor	length 400 mm

When placing an order, please specify the quantity, product description and type code. Example: 1 immersion temperature sensor FT-TP/400

Technical design

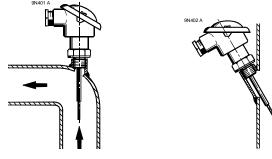
The Pt100 temperature sensor is fitted with a platinium measuring element with a positive temperature coefficient (PTC). The measured-signal/temperature relationship is linear. See data sheet 1714 for technical information on the Pt100 sensor element.

The sensor FT-TP/... comprises a probe with a connecting head and the inserted Pt100 element. To improve the response time, the end of the sensor probe is narrowed. The cable is connected via a PG16 cable gland.

Mounting notes

Mounting instructions are enclosed with the sensor (Ref. 35224)

Where possible the immersion sensor should be mounted in a pipe bend with the sensor probe against the direction of flow. It should be located in a position where the medium is well mixed.



Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

2/3

Measuring range Measuring element

Response time (0.632 value time) in air moving at 1 m/s in water moving at 0.4 m/s

Nominal pressure Suitable media

Material Probe

Electrical connection Cable gland

Temperature range Protection degree of housing Protection class

Weight (incl. packaging) Connecting head

Sensor probe Immersed length Probe diameter Narrowed end Wall thickness Screw thread - 100 ... + 450 °C Pt100 to IEC751, Class B to VDI/VDE 3522 <100 s < 5 s PN 40 Gas or liquid

Cast aluminium Stainless steel V4A (1.4571)

2 screw terminals for max. 2.5 \mbox{mm}^2 PG16

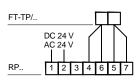
Max. temperature at connecting head 100 °C IP54 according to EN 60529 III according to EN 60730-1

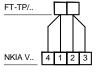
FT-TP/100 = 0.47 kg / FT-TP/400 = 0.54 kg Shape B to DIN 43729

FT-TP/100 = 100 mm / FT-TP/400 = 400 mm 6 mm Length 30 mm, diameter 5 mm Approx. 0.5 mm G1/2 to ISO228/1

Connection diagrams

Four-wire connections

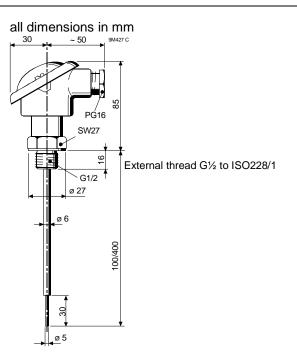




Two-wire connections



Dimensions



3/3

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Subject to change