



Features

- B class accuracy of sensing element
- Different type of sensing element
- 3 standard length available
- Option of rated lengths up to max 20metres
- Temperature sensed along the probe
- Adjustable mounting plate for insulation stand-off

Technical Data

Output	Direct resistance
Measuring Range	-30...+80°C
Testing Current	cirka 1mA
Tube	Rod material, copper, plastic-coated with spring for buckling protection
Connections	2-wire screw terminal 0,14 to 1,5mm ²
Accuracy	±0,3K platina ±0,4K nickel
Ambient temperature	-20...+80°C Sensor Head
Sleeve	Stainless steel
Installation	Observe minimum bending radius of 35mm and permissible vibration <1/2g
Housing	IP65, Polymaide, 30% glass-globe-reinforced, with quick-locking screws
Sensor	Active over the entire length
Dimensions	
Probe diameter	5 mm
Probe length	0,4, 3,0 or 6,0 metres metres
Housing dia.	72x64x39,4mm

Application

Average Temperature sensor for HVAC duct applications where point measurement is inadequate.

Temperature is sensed along entire length of the flexible tube.

Design Features

The TAF sensing elements are housed in an 5mm diameter plastic-coated copper tube along the standard 0,4, 3 or 6m length, which is terminated in an IP65 sensor head.

Ordering Codes

TAF PT100/04	0,4 metres Inu, Serck, IVT, Satt, SIOX, ABB
TAF PT100/30	3 metres
TAF PT100/60	6 metres
TAF PT1000/04	0,4 metres Unitron, Johnson, IVT, KTC, Diana,Exomatic,Honeywell
TAF PT1000/30	3 metres
TAF PT1000/60	6 metres
TAF NI1000/04	0,4 metres Sauter
TAF NI1000/30	3 metres
TAF NI1000/60	6 metres
MC 6	Fixing Clips 6 pcs
Options	Supplement for probe length up to 20 metre

Mounting

Choose accessible location where sensor element will lie in the airstream to be measured.

Drill the hole in duct and use mounting flange to mark position of two fixing holes.

Uncoil sensor tube and feed into duct.

Insert rigid section of the tube into duct flange and tighten plastic locking nut to secure.

Allow a stand off for any duct insulation, so that the sensor head is accessible after insulation is installed.

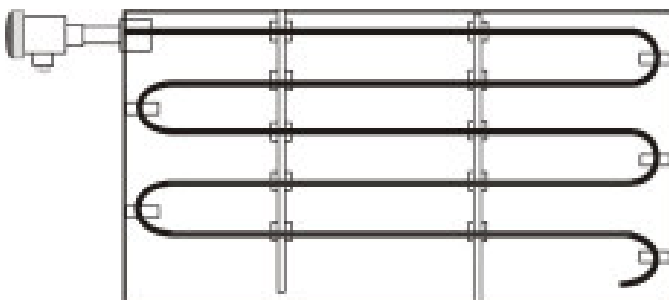
Bend sensor tube by hand into desired shape, be careful no to kink the tubing.

Minimum bending radius is 10cm

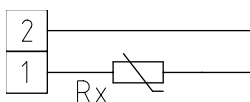
Use clips to fix the tube to the duct walls or to metal struts fitted across the duct.

Feed the cable through the waterproof gland and terminate the cores at the terminal block.

Leaving some slack inside the unit, tighten the cable gland onto the cable to ensure watertightness.

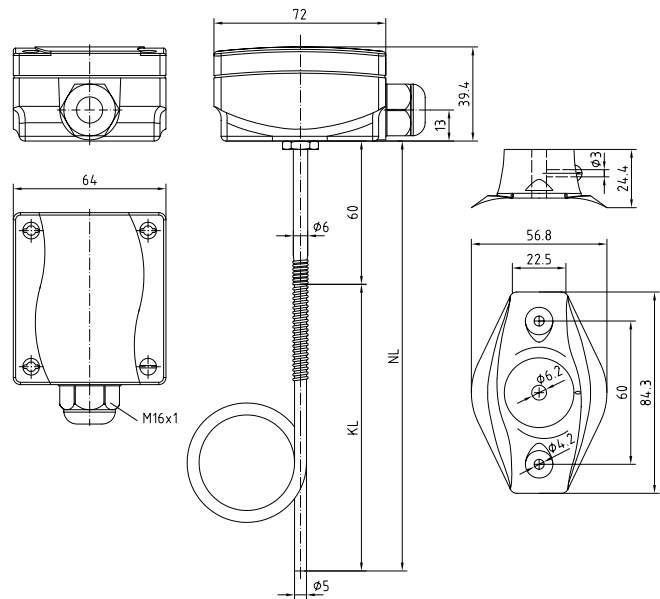


Connections



Connections are made via a 2-way terminal block. The connections for an element are polarity independent.

Dimensions



Installation and Connection Details

All connections to DDC controllers, data recorders etc. should be made using screened cable.

Normally, the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise.

Low voltage signal and supply cables should be routed separately from high voltage or mains cabling.

Separate conduit or cable trays should be used.

Where possible, the controller's earth should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth.

This will provide better immunity to high frequency noise. Most modern buildings have a separate earth for this purpose

Mounting Clips

