



TFS

Accuracy		
NTC	±0,2°C	0...70°C
PT 100a	±0,35°C	0...100°C
PT 1000a	±0,35°C	0...100°C
NI 1000a	±0,35°C	0...100°C

Technical Data

Output types:	Thermistor Resistive
Probe material:	Acetyl
Probe dimensions:	35mm x 6mm dia.
Ambient range:	-40°C...+60°C
Connection:	2-wire screened cable screw terminals 0,5 till 2,5mm ²

Function

The sensing elements change their resistance value with respect to temperature:

PT100, PT1000, NI1000 - increasing resistance by increasing temperature.

NTC - increasing resistance by decreasing temperature.

FEATURES

- Waterproof potting option for refrigeration use
- IP65 housing
- IP67 housing option

General

The **TFS** is a direct output temperature sensor used for the detection of air temperature, especially in fan-coil units, floor heating etc.

Units contain either a high quality thermistor, Nickel or Platinum sensing element.

The sensing element is housed in a 35mm long stainless steel probe, with 2 metres of 2-core screened cable as standard.

Longer lengths can be made to special order.

Ordering Codes

TFS NTC	Unitron, Trend, Honeywell (Aquatrol), Thorn, Elesta, Ambiflex, Seachange, AP
TFS PT100	Inu, Serck, IVT, Satt, Exomatic
TFS PT1000	Cylon, Johnson, IVT, Exomatic, Honeywell, Bastec, Diana, KTC
TFS TA	TAC
TFS NI1000	Sauter, Exomatic
TFS LGNI	Siemens Landis & Staefa, Exomatic (QAA 23, QAD 21)
TFS AND	Andover, York <40°C, Siebe (TS series)
TFS SAT1	Satchwell (DDT, DWT, DOS vissa)
TFS ST1	Staefa (T1)
TFS L	Supplement per 5m cable length,
TFS R	Supplement for waterproof potted



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.

Connection

Connections are made via a 2-way terminal block.

The connections for a thermistor or an nickel/platina element are polarity independent.

