Thimble

Features

- Wide range of sensing element types
- 2 m Screened flying lead as standard
- Plastic, aluminium, brass and stainless steel finishes
- Discrete temperature measurement

Technical Data

Output types:

Passive	Resistive
Active (selectable)	Current 4-20mA or Voltage 0-10\Jdc

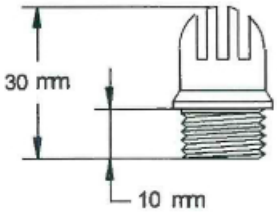
Accuracy:

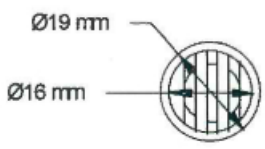
Thermistor	±0.2° to 70°C
PT 100a	±0.2°C @ 25°C
PT1 oooa	±0.2°C @ 25°C
N11000	±0. 4°C@ 0°C
Transmitter	±0.4°C @ 25°C

Housing dimensions:

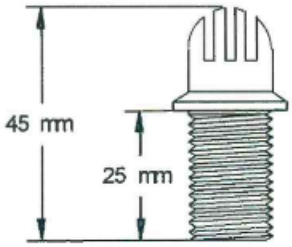
Plastic	45 x 27mm dia.
Metal	30 x 19mm dia
Protection	IP30
Ambient range	-10 to +60°C
Weight	80g

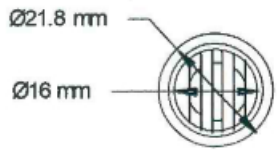
Metal types:





Plastictypes:





Ordering Codes:

TTS NTC	Cylon, Trend , Honeywell Aquatrol , Siox, Schneider, Distech ,, 1 OK@25C
TTSHON	Honeywell, 20K@25C
TTS PT100	Inu, Kabona, Siox, ABB, Honeywell
TTS PT1000	Cylon, Johnson, Regin, Exomatic, Honeywell, Diana, KTC, Bastec, Caverion, Saia, Larmia , Alliance, Danfoss, Kieback & Peter, Fidelix
TTSTA	TAC, Schneider
TTS NI1000	Sauter
TTS LGNI	Siemens, Landis & Staefa QAA 23, QAD 21
TTSALE	Satchwell DDU 1804, Honeywell TE 200AD-6, 3K@25C
TTSAND	Andover, York <40°C, Trane, Carrier, 1 OK@25C
TTSSAT1	Satchwell ORT, DDT, DWT, DOS (vissa), DOT (certain) DST
TTSSAT2	SatchwellDD, DR, DW1202, DWS1301
TTSSAT3	Satchwell DW1204, DW1202
TTS ST30	StaefaT30
TTSST1	StaefaT1
TTSJOH	Johnson Control, 2,2K3A1
TTSDCO	Delta Controls
TTSCRL	Carel 10KNTC

Other measuring elements on request:

TTS-AL	Aluminium housing, option
TTSSS	Stainless steel, option
TTS BR	Brass, option
TTSBW	Snow White, option
TTSSM	5m cable, option

Active Temperature Transmitters

TTT 142	0-10Vdc/4-20mA, -10-40°C/-10+110°C, valbart,24Vac/dc
TTT 142X	0-10Vdc/4-20mA, 24Vac/dc Customized temperature range between -10/+60. °C

Calibration certificate for active temperature transmitters

TT-CAL	3 point calibration at 15, 25 and 35 degees.
TT-CAL-ADP	Extra calibration point, selectable between 0-70 degrees.

Installation

1. Drill a suitable hole in the mounting surface.
2. Pass the flying lead and threaded body through the hole. Secure with the M16 fixing nut provided.
3. Make electrical connections as required.

Connections

All connections to BEMS 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.

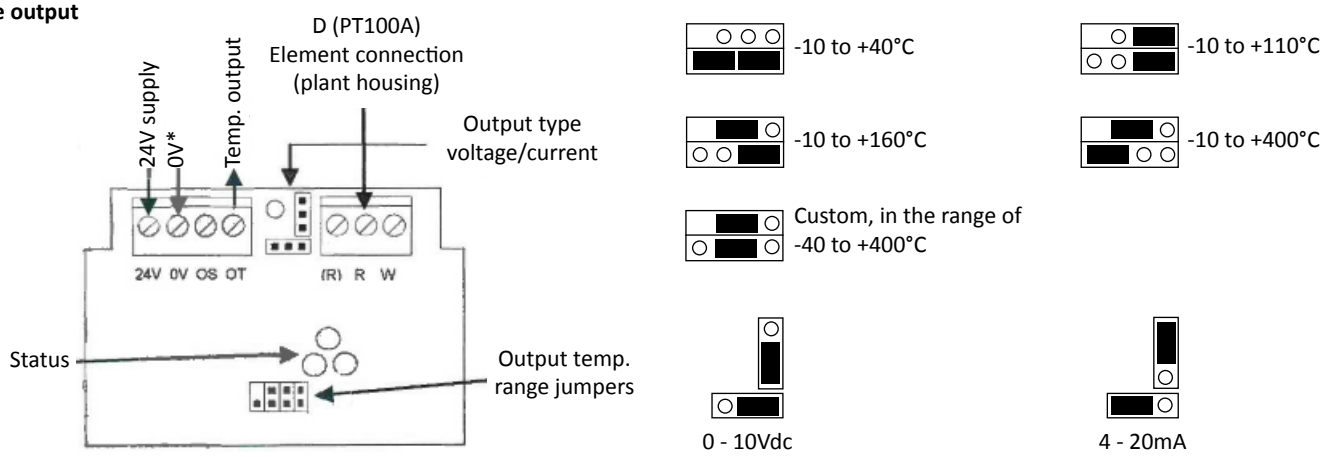
Thermistor:
The pre-striped 2-way connect ions are polarity independent and should be terminated as required.

No terminal block is provided.

Platinum and nickel types:
The pre-striped 2, 3 or 4-wire connections are polarity independent and should be terminated as required.

No terminal block is provided.

Active output



Technical overview

The TTS/TTT range of thimble temperature sensors are used for measuring air temperature in indoor spaces.

They are available in various finishes, plastic, aluminium, stainless steel and brass. Units contain either a high quality thermistor, Platinum or Nickel sensing element.

Sensor types compatible with most controls manufacturers' equipment are available.

The TTT active output option combines 4 preset ranges and selectable output mode, customised output range scaling enabling a choice of outputs and ranges on one unit.