

Description

Duct averaging temperature sensors are designed specifically for HVAC system temperature control. The averaging sensors come in thermistor compatible with most BAS systems available today. Averaging sensors come with a foambacked handy box and in 12ft(3.5m), 24ft(7m),39ft(12m) lengths.

Duct averaging temperature sensor should be mounted across a duct in a serpentine fashion with bends in a smooth ark using clip.



12 meter cable with 9 overmolded sensor elements



Clip

Features

- Lengths of 8ft (2.5m),12ft(3.7m),24ft (7.3m),48ft(15m)
- Five-year warranty
- Cable Property FT4, 105°C, 300V standard or 200°C, 300V high temperature on request.
- Cable Material PVC standard or High temperature silicon available on request.

Specifications

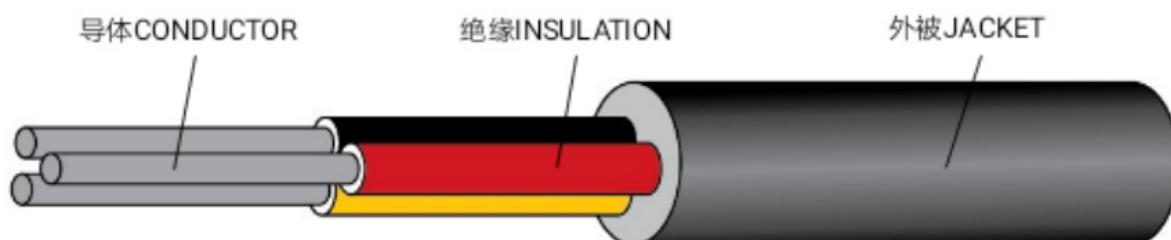
Accuracy	
Thermistor	±0.36°F (0.2°C)
RTD	±0.5°F (0.28°C)
Sensor Type	
Thermistor	10 kΩ Type II & III
RTD	1000Ω
Temperature Range	-20°C~80°C
Stability	
Thermistor/RTD	0.24°F (0.13°C) over five years
Heat Dissipation	Thermistor,3mW/°C (power needed to raise the temperature by 1°C)
Enclosure Rating	Watertight metalbox,Metal box,Plastic box
Warranty	5 years

Wire Specifications

SPEC NO	UL2464 20AWG
Reference Standard	UL1581/758
Rated Temperature	80°C
Rated Voltage	300V
Flame Retardant Grade	VW-1
Environmental Standards	RoHS

Conductor	Sectional Area	AWG/mm	21/0.178±0.008TS
	Conductor Material	/	Tinned Copper Wire
	Sectional Area	mm ²	0.52
	Stranded Diameter	mm	0.94
Insulation	Material	/	Pvc
	The Average Thickness	mm	0.28
	Minimum Gauge	mm	0.24
	Insulation Diameter	mm	1.5±0.1
Jacket	Material	/	Pvc
	The Average Thickness	mm	1.05
	Minimum Gauge	mm	0.95
	Overall Diameter	mm	4.8±0.15

Structure Diagram



Part Number Scheme

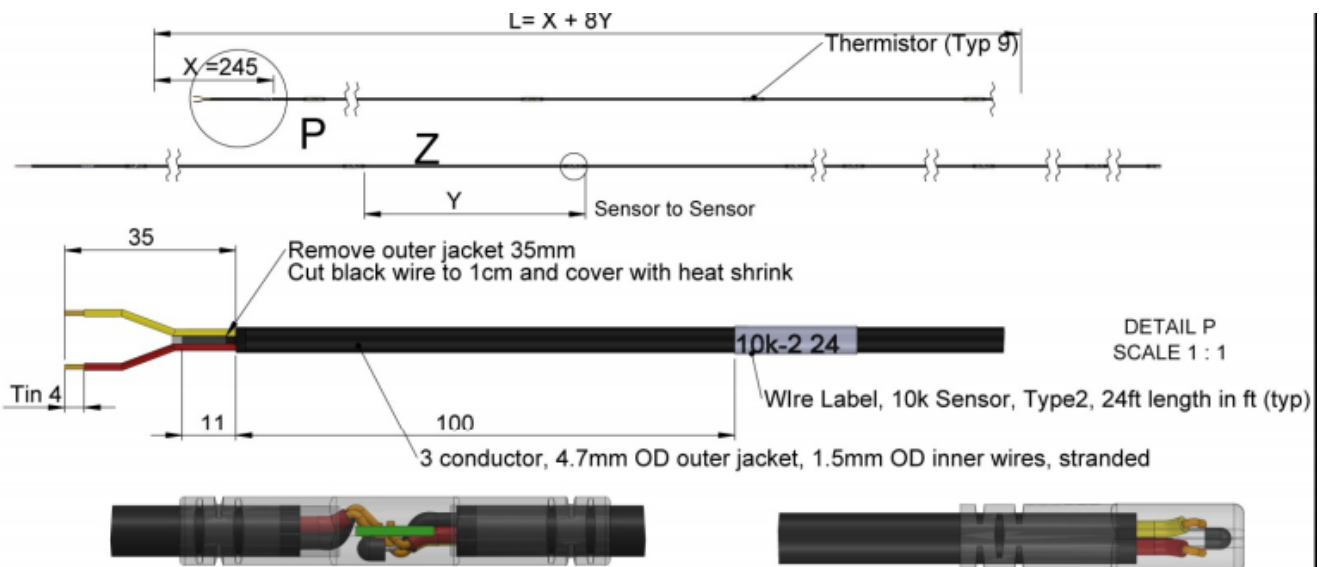
ATS - 7 - 12

Code	Description
ATS	Averaging Temperature Sensor

Code	Probe Length
8	8ft/2.5m
12	12ft/3.7m
24	24ft/7.3m
48	48ft/15m

Code	Temperature Curve
7	10K Type2
12	1K PT
24	10K Type3

Dimension



DETAIL P
SCALE 1 : 1

THERMISTOR DETAIL

Small PCB with thermistor, overmolded

TIP DETAIL

Wiring Arrangement

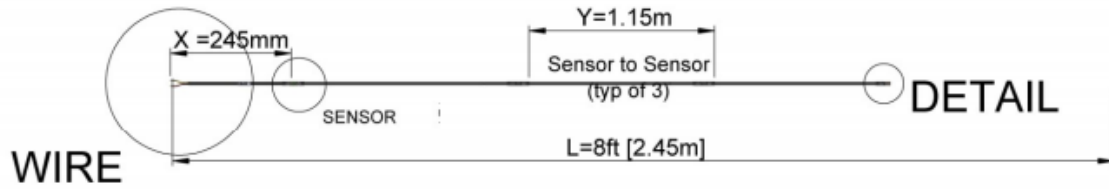


Sensor to Sensor

Length (ft)	L (m)	#Sensors	Y (m)	X (m)
8ft	2.44	4	1.15	=0.2m
12ft	3.66	9	0.43	=0.2m
24ft	7.32	9	0.89	=0.2m
48ft	14.64	9	1.78	=0.2m

DO NOT SCALE DRAWING	REVISION
TASSERON	
TITLE: Averaging Temp Sensors 12FT AND 24FT MODELS [9 elements]	
DRG NO. ASM20180530	Rev3

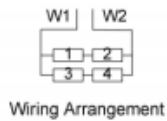
8ft [2.45m] AVERAGING SENSOR (4 ELEMENTS)



SENSOR DETAIL



TIP DETAIL



DO NOT SCALE DRAWING	REVISION
TASSERON	
TITLE: 8FT [2.44M]	
4 SENSOR ELEMENTS	
DWG NO. ASM20180530	REV3

Wiring Arrangement

