



**Thimble Sensors**

These low cost, direct output, Thimble Temperature Sensors are used for measuring air temperature in indoor spaces. Units contain either a high quality thermistor, Nickel or Platinum sensing element. The sensing element is mounted in an attractive thimble enclosure for surface mounting, typically on a backplate or a ceiling tile.

**Features**

- Plastic, brass, stainless steel or aluminium thimble housing options

**TT-518 Series**

Output Type	Description	Part No.	Interface Option Price	
			<input type="checkbox"/> Each	Price
Passive	10K3A1, Trend	TT-518A	<input type="checkbox"/>	£9.25
	10K4A1, Andover	TT-518B	<input type="checkbox"/>	£9.25
	20K6A1, Honeywell	TT-518C	<input type="checkbox"/>	£10.25
	PT1000A, Cylon	TT-518E	<input type="checkbox"/>	£11.25
	Ni 1000A, Sauter	TT-518F	<input type="checkbox"/>	£12.25
	Ni 1000A/TCR (LAN1), Siemens	TT-518G	<input type="checkbox"/>	£12.25
	SAT1, Satchwell	TT-518H	<input type="checkbox"/>	£14.25
	STA1, Landis & Staefa	TT-518K	<input type="checkbox"/>	£14.25
	TAC1, TAC	TT-518L	<input type="checkbox"/>	£14.25
	2.2K3A1, Johnson Controls	TT-518M	<input type="checkbox"/>	£9.25
	30K6A1, Drayton	TT-518P	<input type="checkbox"/>	£10.25
	50K6A1, Ambiflex	TT-518Q	<input type="checkbox"/>	£10.25
	SAT2, Satchwell	TT-518S	<input type="checkbox"/>	£14.25
	SAT3, Satchwell	TT-518T	<input type="checkbox"/>	£14.25
Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-518CVO	<input type="checkbox"/>	£45.00
	4-20mA/0-10VDC Calibrated to customer Spec. in the range -10/+400°C	TT-518CVOC	<input type="checkbox"/>	£54.25

**Part No. Completion**  
When ordering complete the Part No. by adding the following:-

Interface options	<input type="checkbox"/> Add	Price
Black Housing	AL	£9.25
Brilliant white housing	SS	£20.25
2-wire, 1-11 Ω setpoint	B	£12.00
3-wire, 0-10 Ω setpoint	BW	£0.75
3-speed fan switch	5M	£1.75



**Duct Sensors**

The TT-522 is a low cost, direct output, Temperature Sensor used to measure air temperature in ducts. Units contain either a high quality thermistor, nickel or platinum sensing element. The sensing element is fitted into a 150mm long brass probe with holes to allow air to flow directly over the sensing element. A flange plate is available for adjustment of penetration depth (order as TT-522/DFP).

**TT-522 Series**

Output Type	Description	Part No.	Price Each	250mm probe Part No.	Price Each
Passive	10K3A1, Trend	TT-522A	£9.50	TT-522A250	£16.25
	10K4A1, Andover	TT-522B	£9.50	TT-522B250	£16.25
	20K6A1, Honeywell	TT-522C	£10.50	TT-522C250	£17.25
	PT1000A, Cylon	TT-522E	£11.50	TT-522E250	£18.25
	Ni 1000A, Sauter	TT-522F	£12.50	TT-522F250	£19.25
	Ni 1000A/TCR (LAN1), Siemens	TT-522G	£12.50	TT-522G250	£19.25
	SAT1, Satchwell	TT-522H	£14.50	TT-522H250	£21.25
	STA1, Landis & Staefa	TT-522K	£14.50	TT-522K250	£21.25
	TAC1, TAC	TT-522L	£10.50	TT-522L250	£17.25
	2.2K3A1, Johnson Controls	TT-522M	£9.50	TT-522M250	£16.25
	30K6A1, Drayton	TT-522P	£10.50	TT-522P250	£17.25
	50K6A1, Ambiflex	TT-522Q	£10.50	TT-522Q250	£17.25
	SAT2, Satchwell	TT-522S	£14.50	TT-522S250	£21.25
	SAT3, Satchwell	TT-522T	£14.50	TT-522T250	£21.25
Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-522CVO	£45.00	TT-522CVO250	£51.75
	4-20mA/0-10VDC selectable output (custom temp. scaling) Calibration to cust. Spec. in the range -10/+400°C	TT-522CVOC	£54.25	TT-522CVOC250	£61.00

**Accessory**

Duct Flange Plate	TT-522DFP	£5.50
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**Duct Averaging Sensors**

These low cost, direct output, Temperature Sensors are used for measuring temperature in ducts where an average reading across the air flow is required. Units contain either high quality thermistor, nickel or platinum sensing elements which are housed in an 8mm diameter 'Nylon 12' tube, spaced at 0.5m intervals along the standard 2.2m length.

**TT-525 Series**

Output Type	Description	Part No.	Price Each	5mm probe Part No.	Price Each
Passive	10K3A1, Trend	TT-525A	£46.00	TT-525A5M	£73.00
	10K4A1, Andover	TT-525B	£46.00	TT-525B5M	£73.00
	20K6A1, Honeywell	TT-525C	£50.00	TT-525C5M	£77.00
	PT1000A, Cylon	TT-525E	£54.00	TT-525E5M	£81.00
	Ni 1000A, Sauter	TT-525F	£58.00	TT-525F5M	£85.00
	Ni 1000A/TCR (LAN1), Siemens	TT-525G	£58.00	TT-525G5M	£85.00
	SAT1, Satchwell	TT-525H	£66.00	TT-525H5M	£93.00
	STA1, Landis & Staefa	TT-525K	£66.00	TT-525K5M	£93.00
	TAC1, TAC	TT-525L	£50.00	TT-525L5M	£77.00
	2.2K3A1, Johnson Controls	TT-525M	£46.00	TT-525M5M	£73.00
	30K6A1, Drayton	TT-525P	£50.00	TT-525P5M	£77.00
	50K6A1, Ambiflex	TT-525Q	£50.00	TT-525Q5M	£77.00
	SAT2, Satchwell	TT-525S	£66.00	TT-525S5M	£93.00
	SAT3, Satchwell	TT-525T	£66.00	TT-525T5M	£93.00
Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-525CVO	£88.00	TT-525CVO5M	£115.00
	4-20mA/0-10VDC selectable output (custom temp. scaling) Calibration to cust. Spec. in the range -10/+400°C	TT-525CVOC	£97.25	TT-525CVOC5M	£124.25





## True Duct Averaging Sensors

The TT-526 True Duct Averaging Sensor contains a PT100b element, which measures at every instantaneous point along the full length of the 10mm diameter copper tube and is suitable for use in the range -10 to +110°C

### TT-526 Series

Output Type	Description	Part No.	Price Each
Passive	PT100b Thermistor Output	TT-526PT100B	£156.75
	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-526CVO	£180.00
Active	4-20mA/0-10VDC selectable output (custom temp. scaling)	TT-526CVO	£189.25
	Calibration to cust. Spec.in the range -10/+400°C		

The unit does not measure over the first 100mm of the probe length



## Outside Air Sensors

These low cost, direct output, Temperature Sensors are for measuring outside air temperature. Units contain either a high quality thermistor, Nickel or Platinum sensing element. The sensors are housed in IP65 rated enclosures. The TT-531 has a 10mm diameter brass cap containing the sensing element located externally in the shadow of the lid to curb the effects of solar gain, but should always be situated in a sheltered position on a north facing wall.

### TT-531 Series

Output Type	Description	Part No.	Price Each
Passive	10K3A1, Trend	TT-531A	£8.50
	10K4A1, Andover	TT-531B	£8.50
	20K6A1, Honeywell	TT-531C	£9.50
	PT1000A, Cylon	TT-531E	£10.50
	Ni 1000A, Sauter	TT-531F	£11.50
	Ni 1000A/TCR (LAN1), Siemens	TT-531G	£11.50
	SAT1, Satchwell	TT-531H	£13.50
	STA1, Landis & Staefa	TT-531K	£9.50
	TAC1, TAC	TT-531L	£8.50
	2.2K3A1, Johnson Controls	TT-531M	£8.50
	30K6A1, Drayton	TT-531P	£9.50
	50K6A1, Ambiflex	TT-531Q	£9.50
	SAT2, Satchwell	TT-531S	£13.50
	STA2, Siemens/Landis & Staefa	TT-531Y	£11.50
	Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-531CVO
4-20mA/0-10VDC selectable output (custom temp. scaling) Calibration to cust. Spec.in the range -10/+400°C		TT-531CVO	£54.25



## Outside Air Sensors with Radiation Shield

Low cost, direct output, Temperature Sensors for measuring outside air temperature. Units contain either a high quality thermistor, nickel or platinum sensing element. The sensors are housed in IP65 rated enclosures. The TT-532 has the element fitted into a PTFE radiation shield, designed to provide fast response times to changes in outside air temperature and to protect the element from the effects of direct sunlight.

### TT-532 Series

Output Type	Description	Part No.	Price Each
Passive	10K3A1, Trend	TT-532A	£18.50
	10K4A1, Andover	TT-532B	£18.50
	20K6A1, Honeywell	TT-532C	£19.50
	PT1000A, Cylon	TT-532E	£20.50
	Ni 1000A, Sauter	TT-532F	£21.50
	Ni 1000A/TCR (LAN1), Siemens	TT-532G	£21.50
	SAT1, Satchwell	TT-532H	£23.50
	STA1, Landis & Staefa	TT-532K	£23.50
	TAC1, TAC	TT-532L	£19.50
	2.2K3A1, Johnson Controls	TT-532M	£18.50
	30K6A1, Drayton	TT-532P	£19.50
	50K6A1, Ambiflex	TT-532Q	£19.50
	SAT2, Satchwell	TT-532S	£23.50
	STA2, Siemens/Landis & Staefa	TT-532Y	£21.50
	Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-532CVO
4-20mA/0-10VDC Calibrated to customer Spec. in the range -10/+400°C		TT-532CVO	£66.25



## Strap-on Sensors

The TT-551 is used to measure pipe temperature, and contain either a high quality thermistor, nickel or platinum element, which is housed in a 50mm long brass probe with 2 meters of PTFE 2-core screened cable as standard connecting the probe to an IP65 housing for termination.

### TT-551 Series

Output Type	Description	Part No.	Price Each	50mm probe Part No.	Price Each
Passive	10K3A1, Trend	TT-551A	£11.00	TT-551A5M	£17.75
	10K4A1, Andover	TT-551B	£11.00	TT-551B5M	£17.75
	20K6A1, Honeywell	TT-551C	£12.00	TT-551C5M	£18.75
	PT1000A, Cylon	TT-551E	£13.00	TT-551E5M	£19.75
	Ni 1000A, Sauter	TT-551F	£14.00	TT-551F5M	£20.75
	Ni 1000A/TCR (LAN1), Siemens	TT-551G	£14.00	TT-551G5M	£20.75
	SAT1, Satchwell	TT-551H	£16.00	TT-551H5M	£22.75
	STA1, Landis & Staefa	TT-551K	£16.00	TT-551K5M	£22.75
	TAC1, TAC	TT-551L	£12.00	TT-551L5M	£18.75
	2.2K3A1, Johnson Controls	TT-551M	£11.00	TT-551M5M	£17.75
	30K6A1, Drayton	TT-551P	£12.00	TT-551P5M	£18.75
	50K6A1, Ambiflex	TT-551Q	£12.00	TT-551Q5M	£18.75
	SAT2, Satchwell	TT-551S	£16.00	TT-551S5M	£22.75
	STA2, Siemens/Landis & Staefa	TT-551Y	£14.00	TT-551Y5M	£20.75
	Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-551CVO	£45.00	TT-551CVO5M
4-20mA/0-10VDC Calibrated to cust. Spec. in the range -10/+400°C		TT-551CVO	£54.25	TT-551CVO	£61.00



### Flying Lead Sensors

The TT-555 is a low cost, Direct Output Temperature Sensor used to measure air temperature, especially in fan-coil units etc., and contain either a high quality thermistor, nickel or platinum sensing element suitable for the range -10 to +60°C. The sensing element is housed in a 35mm long acetyl probe, with 2 meters of 2-core screened cable fitted as standard. Longer lengths can be made to order.

Order option /R for a stainless steel cap with the element potted in a waterproof compound.

#### TT-555 Series

Output Type	Description	Part No.	Insert		
			Option	Price Each	
Passive	10K3A1, Trend	TT-555A	<input type="checkbox"/>	£8.50	
	10K4A1, Andover	TT-555B	<input type="checkbox"/>	£8.50	
	20K6A1, Honeywell	TT-555C	<input type="checkbox"/>	£9.50	
	PT1000A, Cylon	TT-555E	<input type="checkbox"/>	£10.50	
	Ni 1000A, Sauter	TT-555F	<input type="checkbox"/>	£11.50	
	Ni 1000ATCR (LAN1), Siemens	TT-555G	<input type="checkbox"/>	£11.50	
	SAT1, Satchwell	TT-555H	<input type="checkbox"/>	£13.50	
	STA1, Landis & Staefa	TT-555K	<input type="checkbox"/>	£9.50	
	TAC1, TAC	TT-555L	<input type="checkbox"/>	£8.50	
	2.2K3A1, Johnson Controls	TT-555M	<input type="checkbox"/>	£8.50	
	30K6A1, Drayton	TT-555P	<input type="checkbox"/>	£9.50	
	50K6A1, Ambiflex	TT-555Q	<input type="checkbox"/>	£9.50	
	100K6A1, York >40°C	TT-555R	<input type="checkbox"/>	£13.50	
	SAT2, Satchwell	TT-555S	<input type="checkbox"/>	£13.50	
	STA2, Siemens Landis & Staefa	TT-555Y	<input type="checkbox"/>	£11.50	
	Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-555CVO	<input type="checkbox"/>	£45.00
		4-20mA/0-10VDC Calibrated to customer Spec. in the range -10/+400°C	TT-555CVOC	<input type="checkbox"/>	£54.25

**Part No. Completion**  
When ordering complete the Part No. by adding the following:-

#### TT-555 Series

Options	<input type="checkbox"/> Add	
5m Cable length	<b>5M</b>	£1.25
Cap Potted	<b>R</b>	£5.50



### Space Sensors

The TT-911 is a low cost, Direct Output Temperature Sensor used for measuring air temperature in a room environment. Units contain either a high quality thermistor, nickel or platinum sensing element. Active outputs (0-10Vdc or 4-20mA) are also available.

The TT-911 can be configured with a variety of user interface options including, setpoint control, fan speed switching, latching or momentary switching and LCD display.

Sontay also offers a complete range of customised user interfaces for every requirement. See next page for details on Sontay's UI500 series or call our Customer Service Team for more information.

#### TT-911 Series

Output Type	Description	Part No.	Interface		
			Option	Price Each	
Passive	10K3A1, Trend	TT-911A	<input type="checkbox"/>	£4.25	
	10K4A1, Andover	TT-911B	<input type="checkbox"/>	£4.25	
	20K6A1, Honeywell	TT-911C	<input type="checkbox"/>	£5.25	
	PT1000A, Cylon	TT-911E	<input type="checkbox"/>	£6.25	
	Ni 1000A, Sauter	TT-911F	<input type="checkbox"/>	£7.25	
	Ni 1000A/TCR (LAN1), Siemens	TT-911G	<input type="checkbox"/>	£7.25	
	SAT1, Satchwell	TT-911H	<input type="checkbox"/>	£9.25	
	STA1, Landis & Staefa	TT-911K	<input type="checkbox"/>	£9.25	
	TAC1, TAC	TT-911L	<input type="checkbox"/>	£5.25	
	2.2K3A1, Johnson Controls	TT-911M	<input type="checkbox"/>	£4.25	
	30K6A1, Drayton	TT-911P	<input type="checkbox"/>	£5.25	
	50K6A1, Ambiflex	TT-911Q	<input type="checkbox"/>	£5.25	
	Active	4-20mA/0-10VDC output ranges -10 to +40°C, -10 to +110°C	TT-911CVO	<input type="checkbox"/>	£38.00
		4-20mA/0-10VDC Selectable output (custom temp. scaling)	TT-911CVOC	<input type="checkbox"/>	£47.25
		4-20mA/0-10VDC Selectable output with setpoint	TT-911CVOSP	<input type="checkbox"/>	£48.00
		4-20mA/0-10VDC Selectable output with setpoint (custom temp. scaling)	TT-911CVOSPC	<input type="checkbox"/>	£57.25

**Part No. Completion**  
When ordering complete the Part No. by adding the following:-

#### TT-911 Series

Interface options	<input type="checkbox"/> Add	
Black Housing	<b>BL</b>	£1.25
Brilliant white housing	<b>BW</b>	£1.25
2-wire, 1-11 Ω setpoint	<b>SP</b>	£7.50
3-wire, 0-10 Ω setpoint	<b>SP3</b>	£9.50
3-speed fan switch	<b>FS3</b>	£12.75
4-speed fan switch	<b>FS4</b>	£13.75
5-speed fan switch	<b>FS5</b>	£14.75
Latching Switch	<b>LS</b>	£12.00
Momentary switch	<b>MS</b>	£12.00



### Immersion Sensor

These Immersion Sensors are used for measuring the temperature of liquids in pipework. Units contain either a high quality thermistor, nickel or platinum element. The TT-541 sensing element is housed in a 150mm long brass probe fitted to an IP65 rated enclosure, for direct mounting into a TT-PO511 brass or TT-PO521 stainless steel pocket.

**Specification**

Output Type:  
 Current 4 to 20mA  
 Voltage 0 to 10VDC  
 Ambient Range: -10 to +60°C

#### TT-541 Series

Description	Part No.	Price Each
<b>Passive Output Type</b>		
10K 3A 1 Trend	TT-541/A	£10.50
10K4A1 Andover	TT-541/B	£10.50
20K 6A 1 Honeywell	TT-541/C	£11.50
PT100A, Serck	TT-541/D	£12.50
PT1000A, Cylon	TT-541/E	£12.50
Ni1000A, Sauter	TT-541/F	£13.50
Ni1000A/TCR (LAN1) Siemens	TT-541/G	£13.50
SAT 1 Sauter	TT-541/H	£15.50
STA 1 Landis & Staefa	TT-541/K	£15.50
TAC 1, Tac	TT-541/L	£11.50
2.2K3A1 Johnson Controls	TT-541/M	£10.50
3K3A1 Alerton	TT-541/N	£10.50
30K6A1 Drayton	TT-541/P	£11.50
50K6A1 Ambiflex	TT-541/Q	£11.50
100K6A1 York .40°C	TT-541/R	£11.50
SAT2 Satchwell	TT-541/S	£15.50
SAT3 Satchwell	TT-541/T	£15.50
SIE1 Siebe	TT-541/W	£11.50
STA2 Siemens/Landis & Staefa	TT-541/Y	£13.50
<b>Active Output Type</b>		
Selectable Temp. ranges-10 to +40°C, -10 to +110°C, -10 to +160°C, 0 to +400°C,	TT-541/CVO	£46.00
Custom Temp. Scaling in the range of -40 to +400°C (dependent on sensor type/application)	TT-541/CVO/C	£55.25

### Immersion Sensor Pockets

TT-PO511 Brass Pockets and TT-PO521 Stainless Steel Pockets are for use with immersion sensors to measure the temperature of liquids in pipes and vessels. Pockets are designed to accept 150 x 6mm dia. probes, which are locked in position by a grub screw.

Pockets can be installed in any system that is constructed from compatible materials whose operating pressures are within the specified ranges and fit into a 1 D2 BSPT boss using a thread-seal compound.

#### TT-PO Series

Description	Part No.	Price Each
Brass Immersion Pocket	TT-PO511	£6.00
250mm brass pocket	TT-PO511250	£9.00
Stainless Steel Immersion pocket	TT-PO521	£12.75
250mm stainless steel pocket	TT-PO521250	£20.00



### Temperature Sensors

**Specification**

Ambient Temperature: up to 110°C  
 Enclosure Flammability: ED, EF, EM & ES - UL94-V0

Part Number Completion **1** Select Sensor Type e.g room ER- **2** Select Compatibility e.g Drayton 30K6A1 Part Number **ER-30K6A1** £12.00

#### Sensor Selection Chart

Type	Rating	Description	Part No.
Duct	IP65	2m long cable Sensor 7.1 dia. x 40	ED-
Flue Gas	IP65	Probe Length 230mm	EF-
Room	IP30	85H x 85W x 30D	ER-
Strap-On	IP65	Approx 80 dia. x 55 2m long cable includes strap for up to 6" pipe diameter	ES-
Outside	IP65	Approx 80 dia. x 55	EX-

#### Ordering Chart

Compatibility	Part No.	Sensor Type				
		Duct ED-	Flue Gas EF-	Room ER-	Strap-On ES-	Outside EX-
Honeywell, Trend, Alerton & Smart	10K3A1	£14.00	-	£7.00	£13.00	£11.00
Satchwell	10K3A1/A	£18.00	-	£11.00	£22.00	£16.00
Honeywell	20K6A1	£19.00	-	£12.00	£19.00	£16.00
Drayton	30K6A1	£19.00	-	£12.00	£19.00	£16.00
Landis & Staefa	LST1	£22.00	-	£15.00	£22.00	£19.00
Siemens, Landis & Staefa	LS1000	£24.00	-	£17.00	£24.00	£21.00
TAC	TAC1	£19.00	-	£12.00	£19.00	£16.00
Serck	PT100	£17.00	£70.00	£10.00	£18.00	£15.00
Cylon	PT1000	£17.00	-	£10.00	£18.00	£15.00



Contact your local sales office for other products in this range and for confirmation of price. Prices correct at time of printing but may vary subject to changes in manufacturers list prices. E. & O. E. All prices are exclusive of V.A.T.