

AIR TEMPERATURE



Air Temperature Sensor

A precision digital temperature probe with accuracy up to $\pm 0.1^{\circ}\text{C}$ (RTD 1/3 DIN). The platinum temperature resistor can achieve excellent long-term stability. With the direct measurement of the digital temperature output is a cost-effective choice for meteorological observation systems, civil aviation, marine, plant protection, agriculture, etc. Also available with 4-wire platinum resistance analog output.



Features

- Temperature Sensor PT100 RTD
- Accurate Temperature measurements (0.1°C)
- High long-term stability
- Analogue and Digital outputs depending upon models
- Highly efficient radiation shield
- Design and performances addressed to meteorological applications

Applications

Weather Stations, Agriculture, etc.

Technical Specifications

	SS-AT-01	SS-AT-02
Temperature Measuring Range	-50°C to $+150^{\circ}\text{C}$	-50°C to $+150^{\circ}\text{C}$
Output	Digital: RS485	Analog: 4-wire platinum resistor $0.385\ \Omega / ^{\circ}\text{C}$
Input Power	5 – 28 VDC	5 – 28 VDC


Common Technical Specifications

Temperature	Sensor Type	PT100 1/3DIN
	Accuracy	$\pm 0.1^{\circ}\text{C}$ (@ $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$), $\pm 0.2^{\circ}\text{C}$ (Full Scale)
	Resolution	0.01°C
	Long Term Stability	$< 0.1^{\circ}\text{C}/\text{Year}$
General Specifications	ESD Protection	$\pm 25\ \text{KV}$
	Cable	2m Standard
	Protection (without shield)	IP64
	Storage Temperature	-60°C to $+90^{\circ}\text{C}$
	Housing	ABS+PC, flame resistant, toxicity and halogen free
	Dimensions (Probe only)	$\Phi 8 \times 74.4\ \text{mm}$
Weight (Probe only)	16g	

Thermo-Hygrometer



Accessories

	SS-TH-RS	SS-TH-RS is a natural ventilated all weather radiation shield made of 10 nos. thermoplastic louvered plates. Complete with all accessories such as aluminium mounting bracket (boom) with suitable provision for fitting shield on the boom at desired heights and stainless-steel U bolt clamp.
	Calibration Certificate	Calibration certificate from India Meteorological Department or any other NABL accredited national laboratory
	SS-TH-C1	3m Cable
	SS-TH-C2	5m Cable