

# AIR TEMPERATURE AND RELATIVE HUMIDITY



## Thermo-Hygrometer

A thermo-hygrometer is a combined humidity and temperature probe designed for meteorological and general outdoor applications. Operation from DC voltage and low power consumption makes it suitable for operation at remote locations. The linear output signals are consistent with the requirements of most data acquisition systems. For outdoor application it should be coupled with a radiation shield.



### Features

- Temperature Sensor PT100 RTD and Capacitive Humidity Sensor
- High long-term stability
- Analogue and Digital outputs for humidity and temperature depending upon the models
- Early return after saturation
- Highly efficient radiation shield
- High protection from salty and polluted air
- Design and performances addressed to meteorological applications

### Applications

Weather Stations, Agriculture, etc.

### Technical Specifications

	SS-TH-01	SS-TH-02
Temperature Measuring Range	-40 °C to +85 °C	-40 °C to +60 °C
Humidity Measuring Range	0 to 100%	0 to 100%
Output	Digital: RS485	Analog: Voltage (0 – 1 VDC / 0 – 2.5 VDC / 0 – 5 VDC / 0 – 10 VDC)
Input Power	5 – 28 VDC	5 – 28 VDC


### Common Technical Specifications

Temperature	Sensor Type	RTD PT100
	Accuracy	±0.1 °C (@23 °C), ±0.2 °C (Full Scale)
	Resolution	0.01 °C
	Long Term Stability	<0.1 °C/Year
Relative Humidity	Sensor Type	Capacitive
	Accuracy	± 2% RH
	Resolution	0.01% RH
	Long Term Stability	<± 1% / Year
General Specifications	ESD Protection	± 25 KV
	Cable	2m Standard
	Protection	IP65
	Operating Temperature	-50 °C to +90 °C
	Housing	ABS+PC, flame resistant, toxicity and halogen free
	Dimensions (Probe only)	Φ18.6 x 140mm
Weight (Probe only)	26g	

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### Accessories

	<b>SS-TH-RS</b>	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.
	<b>Calibration Certificate</b>	Calibration certificate from India Meteorological Department or any other NABL accredited national laboratory
	<b>SS-TH-C1</b>	3m Cable
	<b>SS-TH-C2</b>	5m Cable