

## Model: SEN-TH

The sensor SEN-TH integrate sensor elements plus signal processing in compact format and provide a fully calibrated digital output. A unique capacitive sensor element is used for measuring relative humidity while temperature is measured by a band-gap sensor. The applied CMOSens® technology guarantees excellent reliability and long term stability. Both sensors are seamlessly coupled to a 14bit analog to digital converter and a serial interface circuit. This results in superior signal quality, a fast response time and insensitivity to external disturbances (EMC).

### Specifications of Sensors:

#### Temperature

Measurement range -40 ... +123.8°

Accuracy > ±0.1 °C

Resolution: 0.01 ° C Typical. Sensor

Type : Digital

#### Relative Humidity

Measurement range 0 ... 100 %RH

Accuracy:±2 %RH (0 ... 95%RH @25°C)

Resolution: 0.5 % RH Typical.

Long term stability: Typ <1%RH/ Year

Repeatability: ± 0.1 %.

Cable length: 1.5m (**extendable at extra cost**)

Input: 10-28 VDC, 30-60 VDC

Output: Voltage: 0 to 1, 2.5, 5, 10 V

Current: 4-20mA, 0-20mA

RS485-MODBUS

RS232-ASCII

Sensor protection: Radiation Shield

### Specifications of Radiation shield:

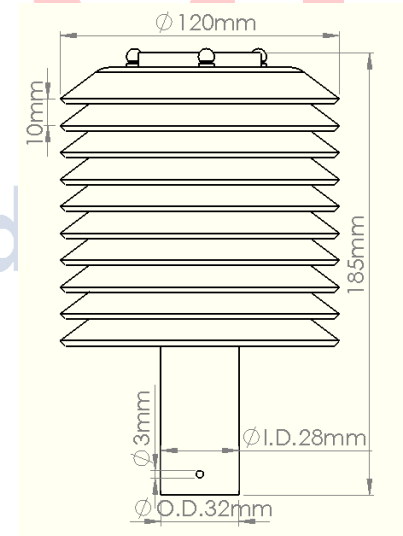
- 10 white UV Stabilized Thermoplastic Plates
- Mounts on 28 mm O.D. Vertical Pipe
- 3 mm screw hole is provided for mount over a vertical pipe

### Specifications of Sensor Housing:

- Hydrophobic Filter is provided to avoid condensation / Dust over sensor
- Can be mounted on any pipe have I.D. 22mm.
- Aluminum mounting bracket with powder coated paint finish.
- Polycarbonate center pipe to avoid rise in temperature inside sensor housing.



### Drawing dimension of Radiation Shield



### Ordering Guide:

#### Output

- 1.For Voltage O/P: **SEN-TH-V-x** (x stands range; 1, 2.5, 5, 10 )
- 2.For Current O/P: **SEN-TH-C-x** (x stands range; 4-20, 0-20)
- 3.For RS485 O/P: **SEN-TH-RS485**
- 4.For RS232 O/P: **SEN-TH-RS232**

#### Model No.

Please mention input range Voltage information along with your enquiry / Purchase order

# Virtual



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Represented by:

**\*\* Drawing & specifications are subjected to change at any time without prior notice as per manufacturing suitability.**