

# ATRH Sensor (WHT-1)

## Application

- Weather monitoring station
- Industrial application
- Disaster management
- Environmental monitoring
- Climate research
- Precision / Smart agriculture
- HVAC



**WHT-1**, Both Temperature and Humidity are built into the Radiation shield at the bottom of the assembly. The integral shield limits errors due to solar radiation. The RH sensor is a capacitive element enclosed in a protective membrane.

### Features:

- Large radiation shields for better protection and air circulation.
- Consistent performance over service life span.
- Periodic calibration may be desirable to ensure measured accuracy.

## Specifications

### Accuracy, Range, and Resolution (Temperature)

- Resolution of 0.01 °C
- Range -20°C to +80°C
- Response Time under 10 sec
- Accuracy  $\pm 0.1$  °C for 0 °C to +60°C
- Accuracy  $\pm 0.2$  °C for -20°C to 0 °C

### Accuracy, Range and Resolution (Humidity)

- Resolution of 1% RH
- Range 0% to 100%
- Response Time under 20 sec
- Accuracy  $\pm 2\%$  RH non condensing

### Interface

- Digital, over I2C bus
- Max 5V DC, 1 mA