

# Temperature & Humidity Sensor

Model: THS-90R, THS-90RD



## Your reliable ambient temperature & humidity sensor

### Overview

PICOBOX Temperature & Humidity Sensor (THS-90R & THS-90RD - D is with LCD display) was designed to measure both ambient temperature & humidity levels of a room or a single enclosure. The compact unit housed an analog output of 4-20mA with noise filter and operates on a DC voltage of 12V.

Its dedicated IC sensor provides linear and accurate measurement. THS-90R & THS-90RD works as a companion product with an Environment Monitoring System (EMS) device, where you could monitor temperature & humidity level remotely via SMS / Email alert sent from the device when levels fall out of the expected range.

### SMS / Email Alert



Leverage on EMS devices such as PICOBOX Message Master 4000's SMS or email alert capabilities to monitor the fluctuation of temperature & humidity contents.

Mount the base plate of THS-90R / THS-90RD on any flat, dry surface and secure the cover. Install it ideally in the middle of a room or centralized area for maximum accuracy measurements. Connect THS-90R / THS-90RD to the EMS device's analog input connector and specify the required temperature measurement range and associated accuracy. THS-90R / THS-90RD will trigger an SMS / Email notification to the user through the EMS device with configurable response time.

MONITOR TEMPERATURE & HUMIDITY LEVELS THROUGH MESSAGE MASTER 4000

### Applications

THS-90R & THS-90RD are specified for maximum accuracy measurements of +/- 0.3°C and +/- 2%RH. It can be mounted on any dry surface, on a flat interior wall or above suspended ceilings and be used in typical areas such as:

#### Some typical areas:

- Data Centres
- Computer / Server Rooms
- Telecommunication Cabinets
- Research / Medical Laboratories
- Hospitals
- Green House
- Weather Stations
- Generator Room
- Commercial Buildings
- Educational Institutions

### Features

- Durable & compact ABS plastic chassis
- Reliable & low maintenance
- Wide DC voltage
- 4 - 20mA Analog output that comes with noise filter
- Accuracy measurements of +/- 0.3°C and +/- 2%RH

Authorised Distributor / Reseller

### Specification

**Chassis:** ABS plastic

**Operating voltage:** 12V DC

**Interface:** 4 wire (2 power, 1 temperature, 1 humidity)

**Output:** 4-20mA, with noise filter

**Dimension:** 100(L) x 80 (W) x 30 (H)

**Weight:** 150g

**Accuracy:** +/- 0.3°C +/-2%RH

**Range:** 0-50°C / (-20)-80°C / (-40)-60C, 0-100%RH