

Accurate humidity / temperature measurement over a wide working range, fitted in a small-sized housing and high flexibility have been the main goals for the development of the FHT10 series.

Calibration data and other relevant functions like linearization or temperature compensation are stored in the probe.

The humidity and temperature measurement are available as analogue outputs (0-1/5/10V or 4-20mA).



Typical Applications

Incubators

Fermentation chambers

Environmental monitoring

Industrial Process control

Humidity / temperature data logging

Features

Small size product

Full interchangeability

Wide working range, high accuracy

High reliability and long term stability

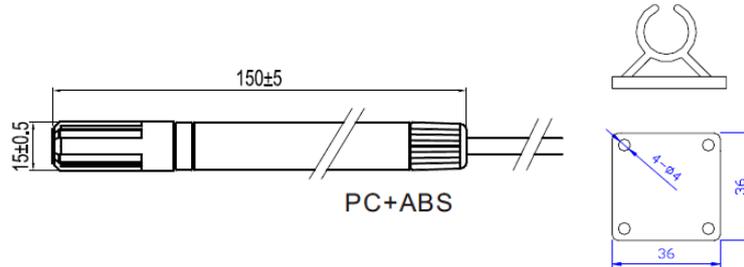
Technical Data

Parameter	Temperature	Relative Humidity
Measurement Range	0...+50°C -40...+60°C -20...+80°C	0...100% RH
Accuracy at 25°C	±0.3°C	±3% RH (20...80% RH)
Stability	< 0.1°C / year	< 0.5%RH / year
Response	< 15s	< 12s(63%)
power supply	2-wire: 12...24V 3-wire: 15...24V	
Output	2-wire: 4...20mA 3-wire: 4...20mA / 0...1/5/10V	
Load	2-wire: (VDD - 7V) / 0.02A 3-wire: Current mode less than 500Ω, Voltage mode greater than 10kΩ	
Protection grade	IP65	

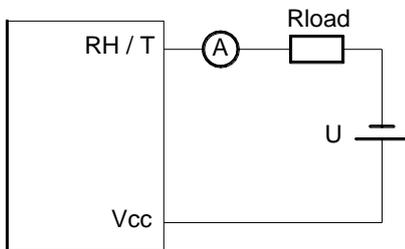
Note:

Please don't used in extreme conditions or exposure to solvent vapors.

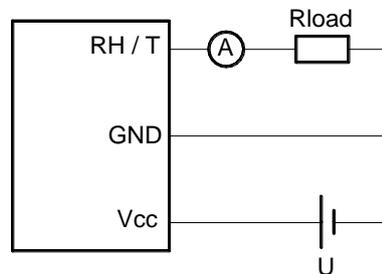
Dimensions (mm)



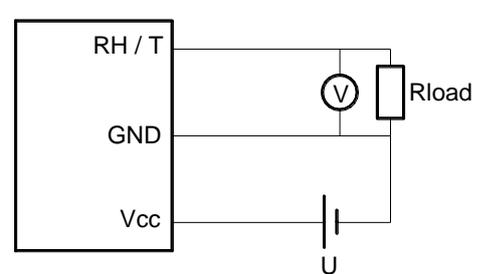
Connection Diagram



2-wire current mode



3-wire current mode



3-wire voltage mode

Ordering Guide

SERIES

OUTPUT

T-SCALING

FHT10

- (A) 2-wire current mode 4...20mA
- (B) 3-wire current mode 4...20mA
- (D) 3-wire voltage mode 0...10V
- (E) 3-wire voltage mode 0...5V
- (F) 3-wire voltage mode 0...1V

- (T1) 0...+50°C
- (T2) -40...+60°C
- (T3) -20...+80°C

Default wire length is 1.5m, AWG24.