

Accurate temperature/humidity 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 FHT23 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 (0-5/10V or 4-20mA).



Typical Applications

- indoor and outdoor environment monitor
- the communication machine room
- warehouse and building automation system
- other need temperature and humidity measurement places

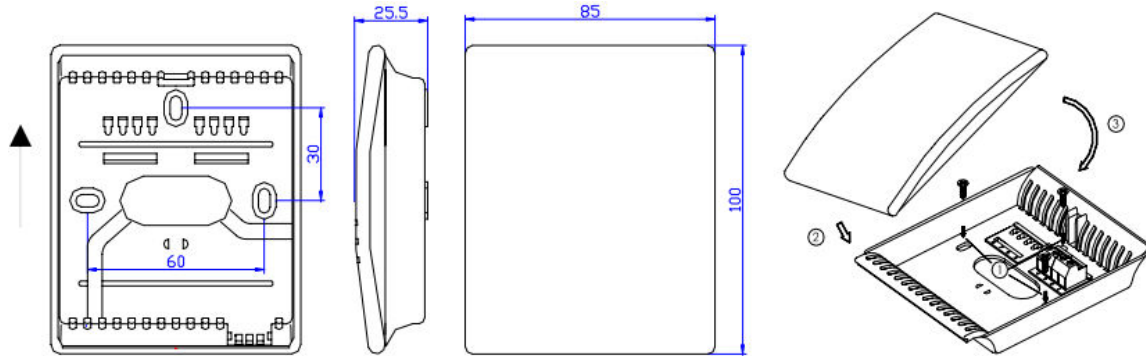
Features

- Small size product
- Full interchangeability
- Wide working range, high accuracy
- High reliability and long term stability

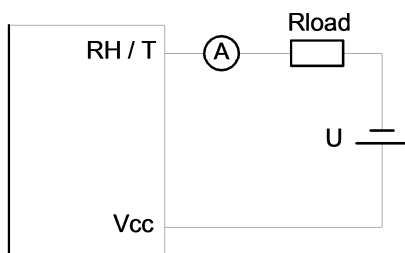
Technical Data

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 / 3-wire Current mode and 0~5V voltage mode: 12~24V 0~10V voltage mode: 18~24V	
Output	2-wire: 4...20mA 3-wire: 0...10mA / 0...1/5/10V	
Load	2-wire: (VDD - 7V) / 0.02A 3-wire: Current mode less than 500Ω, Voltage mode greater than 10kΩ	

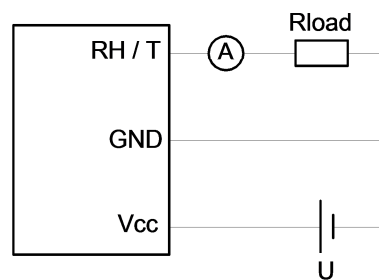
Dimensions (mm)



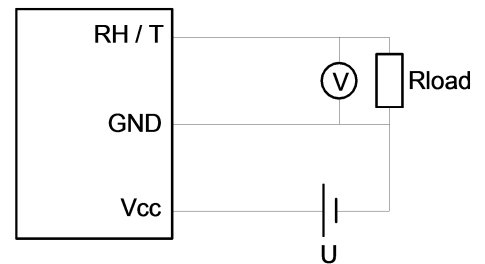
Connection Diagram



2-wire current mode



3-wire current mode



3-wire voltage mode

Ordering Guide

SERIES	OUTPUT	T-SCALING
FHT23	(A) 2-wire current mode 4...20mA	(T05) 0...+50°C
	(B) 3-wire current mode 0...10mA	(T16) -10...+60°C
	(D) 3-wire voltage mode 0...10V	(T46) -40...+60°C
	(E) 3-wire voltage mode 0...5V	(T28) -20...+80°C