FHT20 Series

Humidity and Temperature Transducer for HVAC Applications(wall-mounted)

Specially designed for HVAC, the FHT20 series by Focusens is a cost effective, highly accurate and reliable solution for measuring relative air humidity and temperature.

The enclosure minimizes installation costs and provides outstanding protection against contamination and condensation, thus ensuring flawless operation.
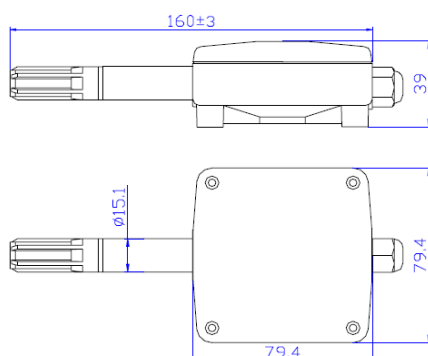
The FHT20 employs the new humidity / temperature Sensirion sensor element SHT21 with excellent long term stability and resistance against pollutants. In combination with a long calibration experience, the FHT20 provides a measurement accuracy of ±3%RH and is available for wall-mounted with current, voltage output.
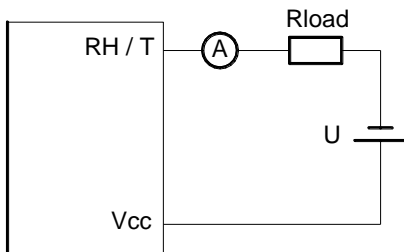
Technical Data

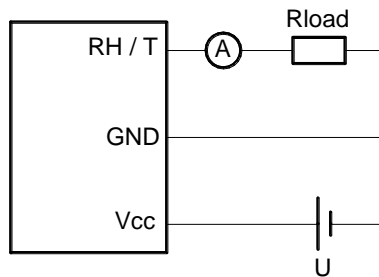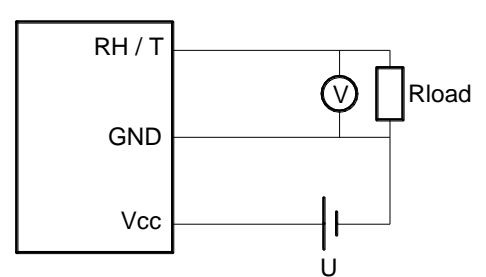| Parameter	Temperature	Relative Humidity
Measurement Range	0...+50°C -40...+60°C -20...+80°C	0...100% RH
Accuracy at 25°C	±0.3°C	±3% RH (20...80% RH)
Stability	< 0.1°C / year	< 0.5%RH / year
Response	< 15s	< 12s(63%)
power supply	2-wire: 12...24V 3-wire: 15...24V	
Output	2-wire: 4...20mA 3-wire: 4...20mA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

Dimensions (mm)

Connection Diagram

2-wire current mode

3-wire current mode

3-wire voltage mode

Ordering Guide

SERIES	OUTPUT	T-SCALING	DISPLAY
FHT20	**(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	**(D)** LCD