

# H3531R - 0 to 100% Humidity Sensor

Model: H3531R



Dimensions: 20mm x 10mm x 10mm

H3531R is a digital humidity sensor with 3-wire I2C interface and 2-wire 1-wire interface

It can measure relative humidity and temperature with high precision and stability

Table

Humidity	0 to 100%
Humidity Accuracy	±2.5% RH (5 to 95% at 23°C)
Humidity Resolution	±0.4°C
Temperature	0.1°C, 0.1%RH
Temperature Accuracy	2s
Temperature Resolution	0.1°C
Temperature Accuracy	±1.5°C (RH < 30%) ±1.5°C (RH > 30%)
Temperature Range	-60 to +80 °C
Humidity Accuracy	±1.5g/m <sup>3</sup> (T < 25°C) 0 to 400 g/m <sup>3</sup>
Humidity Accuracy	±2g/kg (T < 35°C) 0 to 550 g/kg
Humidity Accuracy	±2g/kg (T < 35°C) 0 to 995 g/kg
Humidity Accuracy	±3kJ/kg (T < 25°C) 0 to 995 kJ/kg
Temperature compensation of the humidity sensor	all temperature range
Temperature Range	-30 to +80°C
IP Rating	IP30
Dimensions	20mm x 10mm x 10mm
Operating Voltage	50V, 2A, 60VA
Operating Current	3mA
Response Time	500ms
Supply Voltage	0 to +0.5V
Supply Voltage	+3.0 to +30V
Supply Voltage	0 to +30V
LAN	RJ-45 10Base-T 100Base-TX
Protocols	WWW, ModbusTCP, SNMPv1, SOAP
Protocols	E-mail (SMTP), SNMP Trap, Syslog
Protocols	T-Sensor, Telnet, keyboard

LCD	+70°C +70°C LCD
	0.025mm -
	12Vdc, 1W
	co-axial, 5.5 x 2.1mm
	1m, 2m or 4m
	483 x 44 x 45 mm (W x H x D), 19
	1090g - 1
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