

# 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 RS485 interface.

It provides high precision humidity measurement with 0.1%RH resolution and 0.1°C temperature resolution.

Table:

Humidity range	0 to 100%
Humidity accuracy	±2.5% RH (5 to 95% at 23°C)
Humidity resolution	±0.4°C
Temperature accuracy	0.1°C, 0.1%RH
Temperature resolution	2s
Temperature range	0 to 100%
Temperature resolution	0.1°C, 0.1%RH
Operating temperature range	±1.5°C (RH < 30%) -60 to +80 °C
Operating humidity range	±1.5g/m <sup>3</sup> (T < 25°C) 0 to 400 g/m <sup>3</sup>
Operating pressure range	±2g/kg (T < 35°C) 0 to 550 g/kg
Operating pressure range	±2g/kg (T < 35°C) 0 to 995 g/kg
Operating energy range	±3kJ/kg (T < 25°C) 0 to 995 kJ/kg
Temperature compensation of the humidity sensor	all temperature range
Operating temperature range	-30 to +80°C
IP rating	IP30
Dimensions	20mm x 10mm x 10mm
Power supply	50V, 2A, 60VA
Response time	3s
Output resolution	0.1°C, 0.1%RH
Output range	500ms
Output accuracy	0 to +0.5V
Output resolution	+3.0 to +30V
Output range	0 to 100%
LAN	RJ-45 10Base-T 100Base-TX
Protocols	WWW, ModbusTCP, SNMPv1, SOAP
Interfaces	E-mail (SMTP), SNMP Trap, Syslog
Accessories	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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