

Features & Benefits

- Robust sensor enclosure
- Easy installation with LED indication, test button and auto output mode detection (3-wire)
- Supports 2-wire loop powering or 3-wire installation
- Pluggable terminal blocks and tool free installation

Technical Overview

The RH-D range of humidity and temperature sensors offer the latest technology high precision and accuracy RH & T element. A valuable feature of this sensor is when in 3-wire mode it automatically detects the controller input type, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers. 2-wire loop powering selectable via DIP switch. It also provides on-board LED indication for power up status and set output mode. The terminal blocks are pluggable and allow tool free installation (ferrules required). An optional multi-line backlit LCD display is available, along with a direct PTC/NTC sensing element.

Specification

Active outputs	0-10Vdc or 4-20mA (3-wire) self-detecting, 4-20mA (2-wire via DIP)
AH accuracy	±2% (20 to 80% RH)
Dewpoint output ranges	-50 to +50°C
Duct probe dimensions	240 x 20mm dia
Enthalpy output ranges	-20 to +250kJ/kg
Gross Weight (kg)	0.39
Housing Dimensions	125 x 105 x 85mm
Other accuracy	±3% (20 to 80% RH)
Passive temp. output	PTC/NTC Element: Any Sontay resistive
Power Supply	24Vac/dc ±10%
RH output ranges	0 to 100%
Temperature Accuracy	±0.5°C (20 to 40°C)
Temperature Output range	-20 to 50°C as standard, Others available on request
Wall probe dimensions	90 x 20mm dia

Technical Specification

RH output ranges	0 to 100%
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Housing Dimensions	125 x 105 x 85mm
Active outputs	0-10Vdc or 4-20mA (3-wire) self-detecting, 4-20mA (2-wire via DIP)
Temperature Output range	-20 to 50°C as standard, Others available on request
Power Supply	24Vac/dc $\pm 10\%$
Temperature Accuracy	$\pm 0.5^\circ\text{C}$ (20 to 40°C)
Material	PC/GF (Halogen Free Flame Retardant, UV Stabilized)

Related Product Codes

RH-D	Duct Mounted T and RH Sensor 3%
RH-D-AH	Duct Mounted T and RH Sensor 2%
RH-D-EN	Duct Mounted Enthalpy and Dewpoint Sensor
-LCD	RH and T Transmitter 3% c/w LCD
-T	Duct Mounted T and RH Sensor 3% SAT3
-TR	Duct Mount RH & T Sensor