

Installation Instructions & Data Sheet

ARHC-1D

Duct Mount Humidity & Temperature Sensor

1% Accuracy



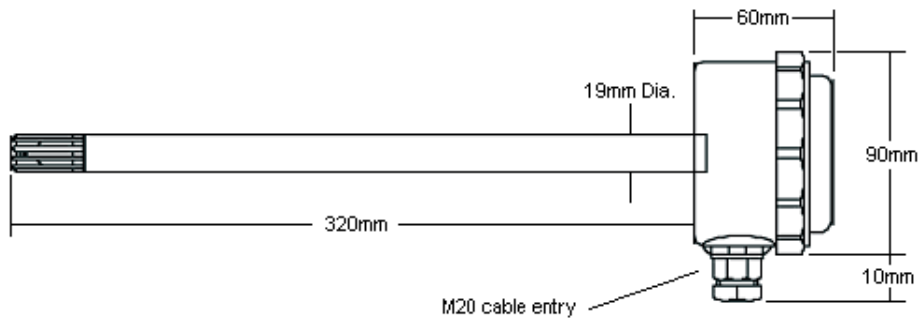
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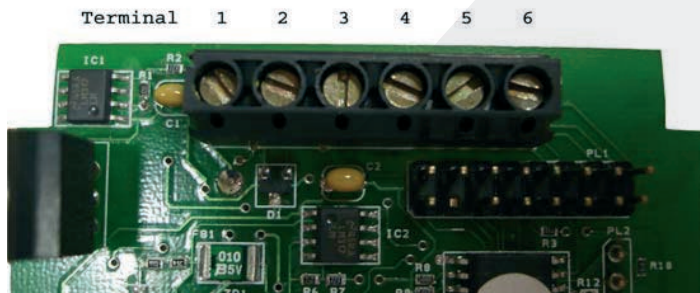
Installation

1. Choose an accessible location where the sensor element will lie in the airstream to be measured.
2. Drill a 20mm diameter hole in duct and use enclosure to mark position of two fixing holes (92mm fixing centres)
3. Drill 2 x 4.6mm diameter holes and fix enclosure with No. 6 x 20mm screws.

Connection

1. Remove the circular cap on sensor head.
2. Insert cable through cable gland and connect signal wires to terminals.
3. Tighten cable gland and replace cap.

Wiring Details



Terminal Connection

1 = +24 VDC / 24 VAC
 2 = V+ RH
 3 = V+ Temp.
 4 = 0v Common
 5 = RH current loop +
 6 = Temp. current loop +
 Loop power must be applied to the RH to get temp output.
 For 0-10V outputs use pins 1-4 and for 4-20mA outputs use pins 4-6 and apply 24VDC

Sensors

Relative Humidity Sensor: Thin Film Polymer Sensor
Humidity Accuracy: + / - 1% (20%-70% RH)
Temperature Sensor: Silicon Bandgap
Temperature Accuracy: + / - 0.5°C

Outputs

Humidity: 0% RH = 4mA/0V
 100% RH = 20mA/10V
Temperature: -10°C = 4mA/0V
 70°C = 20mA/10V

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