

ClimaVision Duct Sensor

A high-precision, pre-calibrated duct temperature and humidity sensor



Duct Sensor | Part # 7C-SE-C1X-DT

- Accurate temperature readings
- Accurate humidity readings
- Sleek design, low-impact aesthetics

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ClimaVision's suite of sensor offerings gives building owners the power of IoT-connected devices for optimal efficiency and comfort in spaces where it matters most. Measure to manage with the Duct Sensor, a high-precision temperature and humidity sensor that pairs with the ClimaVision Smart Node to deliver data that influences equipment control. This device can be daisy chained with other sensors to provide an extensible sensor network.



Part # 7C-SE-C1X-DT

OVERVIEW

The Duct Sensor is a high-precision sensor that is pre-calibrated from the factory. The DTH is easily mounted on a duct or VAV box by self-drilling screws. The sensor also has a secondary communication port to enable daisy chain communication.

It comes with modular pipes that are approximately 4 and 6 inches long. This enables easy installation on variable duct thickness and sizes.

KEY FEATURES

- Accurate temperature readings (typical +/- 1°F or 0.2°C)
- Accurate humidity readings (typical +/- 2% R.H.)
- Factory pre-calibrated
- Flexible duct sensor sizes of 4", 5.5" and 9.5"

ADDITIONAL FEATURES

- Sleek design, low impact aesthetics
- Can be daisy-chained with other sensors to provide extensible sensor network
- Communicates over a proprietary 3-wire sensor network with ClimaVision controllers like the Smart Node

COMPATIBLE APPLICATIONS

- VVT
- VAV
- Outside Air Optimization
- Single Stage Equipment

Supports daisy-chaining on sensor network



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MECHANICAL

Dimensions 5.5" x 1.4" (139.4mm x 35.56mm)

Mounting Duct mount

Operating Temperature 14°F – 122°F (-10°C – 50°C)

SENSORS

Temperature 14°F – 122°F (-10°C – 50°C); typical accuracy of +/- 1°F or 0.2°C

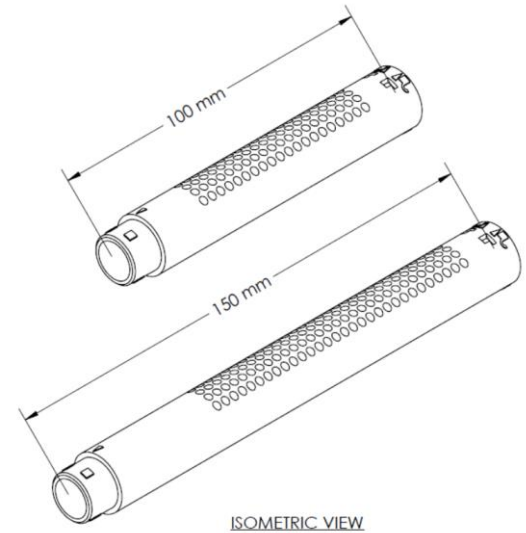
Humidity Sensing range between 0 to 100%RH; Typical accuracy of +/- 2% RH

ELECTRICAL

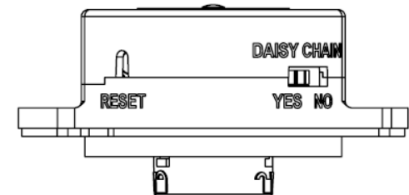
Power 3.3VDC (+/-10%)

COMMUNICATIONS

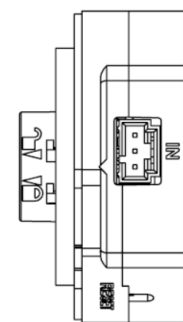
Wired Sensor bus for power and communication; proprietary 1 wire protocol to communicate with a master device



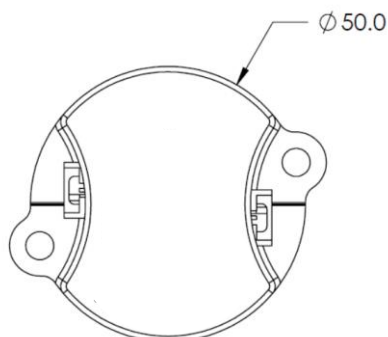
ISOMETRIC VIEW



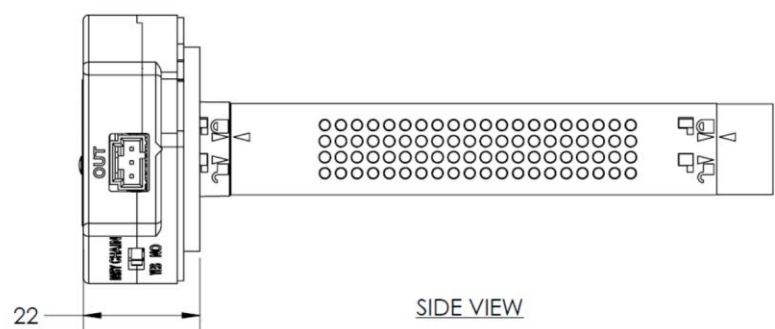
BOTTOM VIEW



SIDE VIEW



FRONT VIEW



SIDE VIEW