

# HT0D Series Humidity/Temp Duct Value

- 2% and 3% RH accuracy options
- 0-5V, 0-10V, 2-wire and 3-wire 4-20mA options
- Thermistor outputs for temperature optional



## DESCRIPTION

Designed for use with energy management systems in buildings, the HT0D series combines excellent stability and reliable operation. Analog output options and thermistor options accommodate any installation.

## APPLICATIONS

- HVAC room humidity and temperature measurement and control
- Energy management/building control



*Cost-effective...ask about quantity pricing*



*Probe provides active airflow readings*



*Buy American Act Certified*

## FEATURES

- On-board temperature compensation for RH.
- Gasket seals sensor against wall drafts and false readings
- Vortex probe circulates flow for accuracy
- Cost-effective solution for duct applications

ORDERING

HT0D-

**Accuracy**

- 2= 2%
- 3= 3%

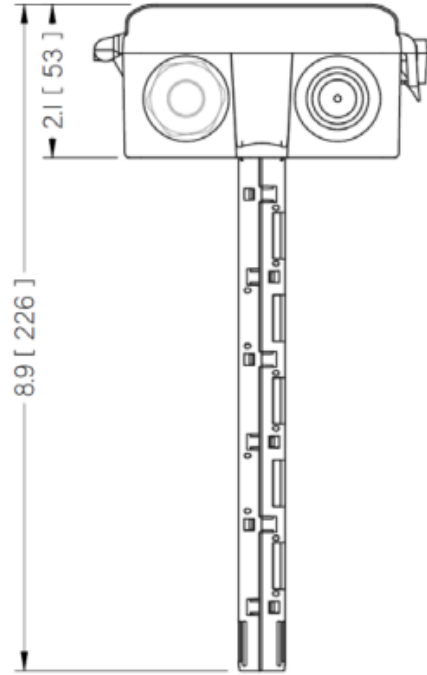
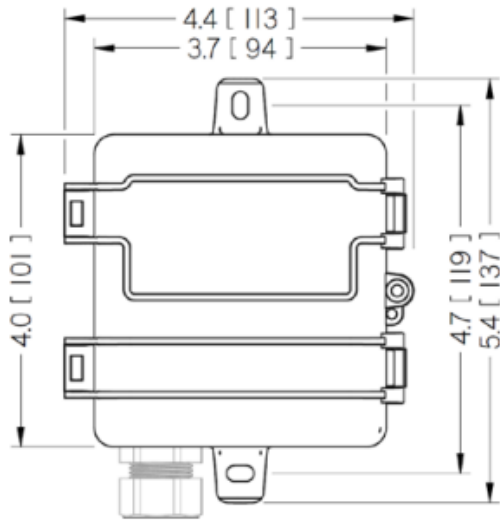
**Output Type**

- A= 0-5V, 3-wire
- B= 0-10V, 3-wire
- C= 4-20mA, 2-wire
- D= 4-20mA, 3-wire

**Temperature**

- A= None
- C= 100PtRTD
- D= 1000PtRTD
- E= 10K Type 2
- F= 10K Type 3
- G= 10K W/ 11K
- H= 3K
- I= 2K2
- J= 1K8
- K= 20K
- L= 100K

DIMENSIONS



**Warning:** The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

**SPECIFICATIONS**

Power Supply		12-30VDC/24VAC (1), 24mA max.
Outputs	RH% (options)	3-wire 0-5/10VDC, 4-20mA 2-wire 4-20mA
Output scaling	RH%	0-100% RH
Thermistor Options		Yes, see ordering table
Media filter		PTFE membrane, IP54 protection
Relative Humidity	Accuracy	2% models: $\pm 2\%$ max 0 to 100% RH 3% models: $\pm 3\%$ max 0 to 100% RH
	Resolution	0.01%RH
	Hysteresis	$\pm 0.8\%$ RH
	Non-Linearity	factory linearized < 1%RH
	Temperature coefficient	fully compensated by on-board temp sensor
	Response time (2)	8s
	Output update rate	0.5s
	Operating range	0 to 100%RH (non-condensing)
	Long term drift	< 0.25%RH per year
Environmental	Normal Operating conditions (3)	41 to 140°F (5 to 60°C) @ 20 to 80%RH
	Enclosure Rating	IP20/NEMA 1
	Unit Temp Rating	-40°F to 158°F (-40 to 70°C)

1. One side of transformer, secondary is connected to signal common. Dedicated transformer is recommended.
2. Time for reaching 63% of reading at 25° C and 1 m/s airflow.
3. Long term exposures to conditions outside normal range at high humidity may temporarily offset the RH reading (+3%RH after 60 hours).
4. 15-30VDC/24VAC power supply voltage required for 10 volt output. Power Consumption 100mA max AC, 50mA max DC"

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