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

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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

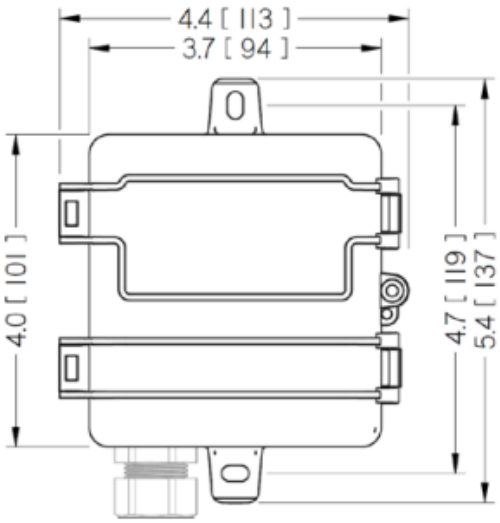
HT0D- ☐ ☐ ☐

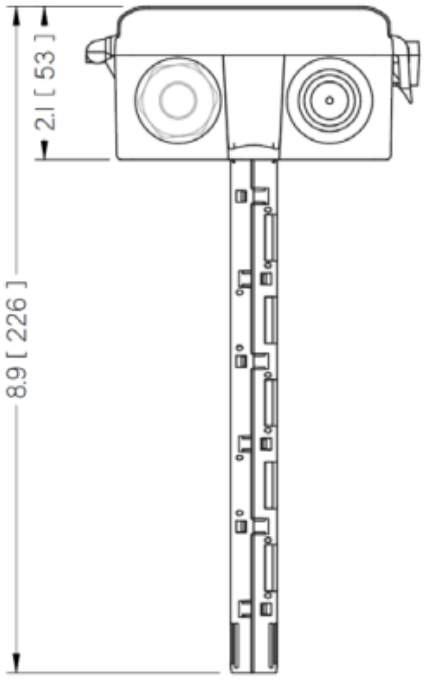
Accuracy
2= 2%
3= 3%

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: ±2% max 0 to 100% RH 3% models: ±3% max 0 to 100% RH
	Resolution	0.01%RH
	Hysteresis	±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
	Normal Operating conditions (3)	41 to 140°F (5 to 60°C) @ 20 to 80%RH
Environmental	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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