## *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

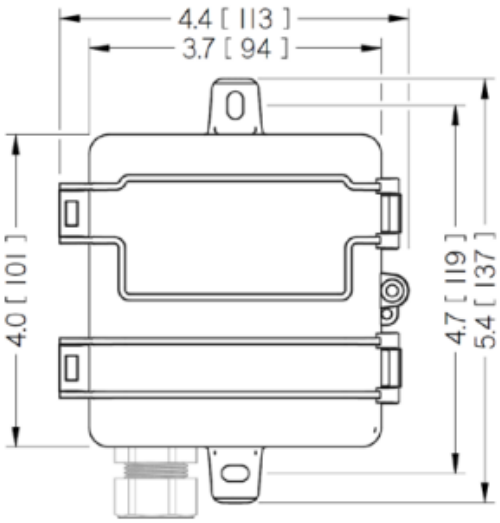
**HT0D-** ☐ ☐ ☐

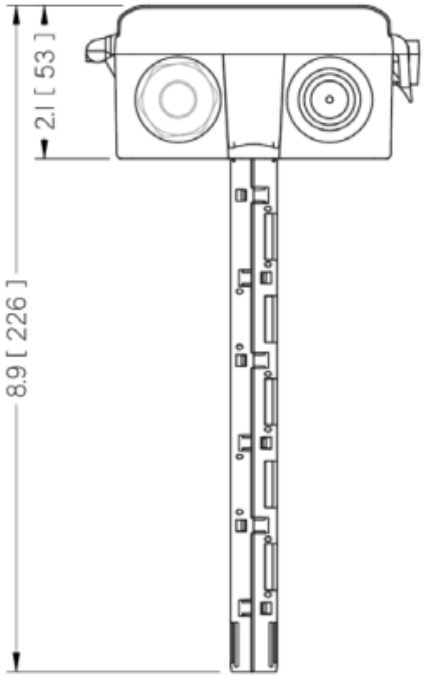
**Accuracy**
2= 2%
3= 3%

**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: ±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"

** Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.*