## SENVA

# HTOD Value Series Duct Humidity/Temperature

2% or 3% accuracy 0-5/10V/4-20mA RH/Temp (thermistors 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

#### FEATURES

#### Senva's high efficiency duct probe

- Designed to mount easily in any duct
- Ideal for schools, hotels, offices, etc.

#### **Options for any job**

- Thermistor outputs for temperature (optional)
- 0-5V, 0-10V, 4-20mA 2-wire, or 3-wire options available

#### **Superior RH sensing**

- 2% or 3% RH accuracy options
- On-board temperature compensation eliminates temperature coefficient errors and achieves high repeatability and offset stability
- Achieve better accuracy for more efficient control

#### Industry-leading warranty

7-year limited warranty on electronics; sensor element 2 years



#### Field replaceable element

- Ideal for harsh environments
- Accurate dual RH/Temp IC sensing





#### ORDERING

#### HT0D -Accuracy 2 = 2% 3 = 3% Output Type A = 0-5VDC, 3-wire

B = 0-10VDC, 3-wire C = 4-20mA, 2-wire D = 4-20mA, 3-wire

#### Temperature

A = None C = 100Pt (385) D = 1000Pt (385) E = 10k type 2 F= 10k type 3 G = 10k type 3 w/11k shunt H = 3k I = 2k2 J = 1k8 K = 20k L = 100k

### SPECIFICATIONS

Power Supply

	12-30VDC/24VAC <sup>(1)</sup> , 24mA max		
DI 10/	3-wire 0-5, 10V <sup>(4)</sup> , or 4-20mA,		

**AIR OUALITY** 

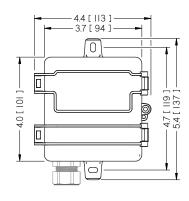
	Output	RH%	3-wire 0-5, 10V (*), or 4-20mA, 2-wire 4-20mA(optional)
	Output scaling	RH%	0-100% RH
	Thermistor Options		Yes, see ordering table on left
	Media filter		PTFE membrane, IP54 protection
Relative		Accuracy	2% models, $\pm$ 2% over 0 to 100% RH Range
			3% models, $\pm$ 3% over 0 to 100% RH Range
		Resolution	0.01%RH
		Hysteresis	±0.8%RH
		Non-Linearity	factory linearized <1%RH
	Relative Humidity	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
		Element Normal Operating conditions <sup>(3)</sup>	41 to 140°F (5°C to 60°C) @ 20% to 80% RH
I	Enclosure	Dimensions	4.0"h x 4.4"w x 2.1"d (+6.8" probe)
		Unit Temp Rating	-40 to 158°F (-40 to 70°C)
	Agency	Compliance	RoHS

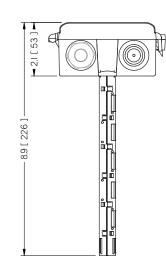
(1) One side of transformer, secondary is connected to signal common. Dedicated transformer is recommended.
 (2) Time for reaching 63% of reading at 25° C and 1 m/s airflow.

(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.

#### DIMENSIONS







*Warning:* Refer to installation instructions that accompany product and heed all safety instructions.