

## HT0R Series Humidity Recessed Value

2% and 3% RH accuracies

0-5V, 0-10V, 2-wire and 3-wire 4-20mA options

Thermistor outputs for temperature optional

High quality private label--promote YOUR brand!



### DESCRIPTION

Attractive design is attractive, durable, and cost-effective--ideal for schools and other harsh environments. Mount to J-box or surface mount with a small cut-out. Features accurate 2% and 3% RH, and choice of 0-5V, 0-10V, 2-wire and 3-wire 4-20mA outputs as well as thermistor options. Professionally printed private labeling is available to promote your company and future service business.

### APPLICATIONS

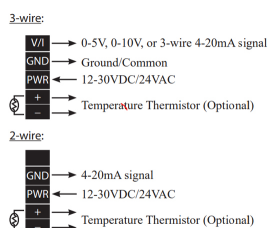
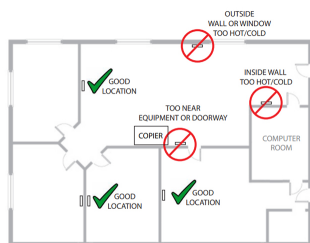
- Attractive and durable--ideal for commercial, institutional, and school environments
- HVAC humidity/temp measurement & control
- Facilitating compliance with ASHRAE 62.1 AQ
- Maintain healthy air quality, minimize mold and other contaminants
- Museums, hospitals, & other critical areas
- Offices, conference rooms, & indoor public areas
- Industrial process control environments



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

*Your brand, your product. Affordable high-quality branding. Generate service calls for life*

*Gasket seals element from wall drafts. 45 degree terminals for ease of wiring*



*Locate sensor in an area away from ventilation, and heat generating equipment/appliances*

*Wire sensor as shown above*

*Buy American Act Certified*

## FEATURES

- New enclosure design is rugged and slim
- No exposed screws; unobtrusive tamper-resistant design
- Ideal for schools and institutional environments
- Fits easily in standard single-gang boxes
- Saves installation time and reduces callbacks
- On-board temperature compensation for RH.
- Gasket seals sensor against wall drafts and false readings

## ORDERING

HT0R-



**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

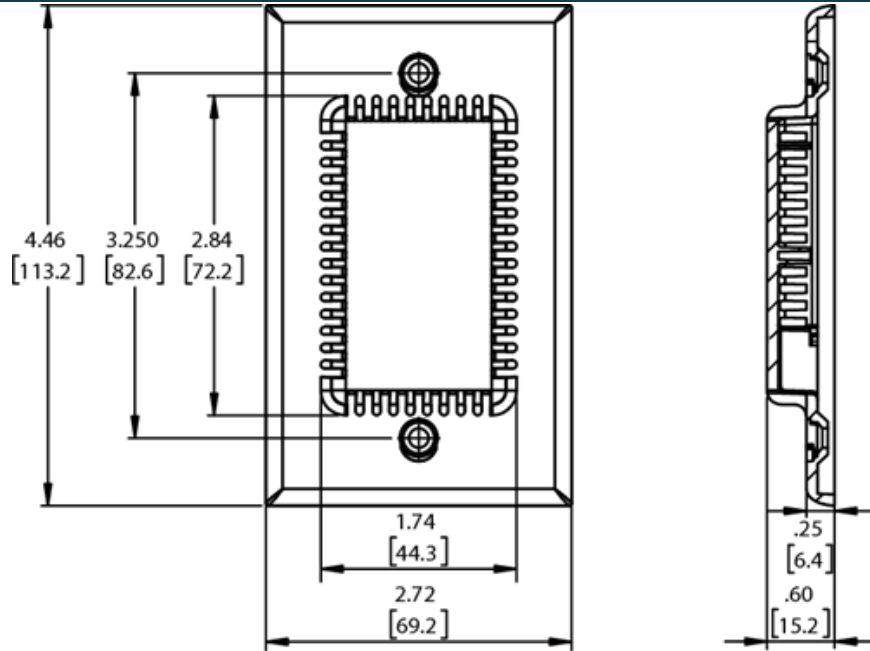
I= 2K2

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		See ordering table
Media filter		PTFE membrane, IP54 protection
Relative Humidity	Accuracy	2% models: $\pm 2\%$ max 0 to 100% RH, $\pm 1.5\%$ typ 0 to 80% RH@25°C 3% models: $\pm 3\%$ max 0 to 100% RH, $\pm 2\%$ typ 0 to 100% RH@25°C
	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
	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.