

HT1 Series Humidity/Temp Recessed/Wall

2% and 3% RH accuracy options Universal analog output provides 0-5,V, 0-10V, 2-wire or 3-wire 4-20mA Thermistor outputs for temperature optional Optional LCD display





DESCRIPTION

The new Senva HT1 Series comes in our newly engineered enclosure making it the most attractive and quickest-installation humidity sensor on the market. Designed with a universal analog output and a variety of thermistor options allows flexibility on-site. It mounts easily in any junction box or it can be unobtrusively mounted directly to drywall using Senva's built-in drywall clamps. Save installation time and energy costs with this versatile product.

APPLICATIONS

- Facilitating compliance with ASHRAE 62.1 standard for air quality
- Indoor air comfort and control in HVAC systems
- Maintain healthy air quality, minimize mold and other contaminants
- Museums, hopsitals and other critical environments
- Offices, conference rooms, and public assembly areas
- Industrial process control environments



Attachable dry wall clamps for easy retrofit installation



Meets Buy American Act Certification



Optional "Wall" version for surface-mount applications

TAMPER PROOF

Tamper proof push-in lock tabs - great for schools!



FEATURES

- Fast and attractive installation: mounts easily in standard wall recepticals or order the surface-mount version
- Low profile installation is ideal for schools and other harsh environments
- Innovative drywall clamps allow unobtrusive and secure mounting without a junction box
- · Ideal for schools and institutional environments
- Field calibration with LED or LCD allows easy adjustment of calibrated RH value as needed to maintain certification
- On-board temperature compensation for RH. Eliminates temperature coefficient errors and achieves an excellent measurement accuracy as well as high repeatability and offset stability.

ORDERING



* Order B=transmitter to display temperature reading; thermistor and RTD options will not display temperature on LCD

Replacement Sensors Part # Examples:

- HTW 2A 2%, Xmtr or No Temp, HT1W/R & AQ2W
- HTW 2C 2%, 100Pt RTD, HT1W/R & AQ2W
- HTW 2D 2%, 1000Pt RTD, HT1W/R & AQ2W
- HTW 2E 2%, 10K Type 2, HT1W/R & AQ2W
- HTW 2F 2%, 10K Type 3, HT1W/R & AQ2W
- HTW 2%, 20K, HT1W/R & AQ2W
- HTW NA 2% NIST, Xmtr or No Temp, HT1W/R & AQ2W
- HTW ND 2% NIST, 1000Pt RTD, HT1W/R & AQ2W

- HTW 3A 3%, No Temp or Transmiter, HT1W/R & AQ2W
- HTW 3C 3%, 100Pt RTD, HT1W/R & AQ2W
- HTW 3D 3%, 1000Pt RTD, HT1W/R & AQ2W
- HTW 3E 2%, 10K Type 2, HT1W/R & AQ2W
- HTW 3F 3%, 10K Type 3, HT1W/R & AQ2W
- HTW 3K 3%, 20K, HT1W/R & AQ2W





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), 100mA max.
Outputs	RH% and Temperature	3-wire 0-5, 10V (4), or 4-20mA, 2-wire 4-20mA(selectable)
Output scaling	RH% Temperature	0-100% RH 50-95° F (10-35° C) or 32-122°F (0-50°C)
Thermistor Options Media filter		Yes, see ordering table PTFE membrane, IP54 protection
Relative Humidity	Accuracy Resolution Hysteresis Non-Linearity Temperature coefficient Response time (2) Output update rate Operating range Long term drift Normal Operating conditions (3)	2% models: ±2% max 0 to 100% RH 3% models: ±3% max 0 to 100% RH 0.01%RH ±0.8%RH factory linearized <1%RH fully compensated by on-board temp sensor 8s 0.5s 0 to 100%RH (non-condensing) <0.25%RH per year 41 to 140°F (5 to 60°C) @ 20 to 80%RH
Temperature	Accuracy Resolution Repeatability Response time (2) Temperature Scaling Output update rate Operating range	2% models, <±1° C; 0.5° C typ @ 25°C 3% models, <±2° C; 0.5° C typ @ 25°C 0.01° C 0.04° C 2s 50-95°F (10-35° C) 0.5s -40° C to 140°F (-40 to 60°C)
Environmental	Enclosure Rating Unit Temp Rating	IP20/NEMA 1 -40° C to 158°F (-40 to 70°C)
Compliance	Agency	CE, 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. Power consumption 100mA max AC, 50mA Max DC

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