

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



Optional "Wall" version for surface-mount applications



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



Meets Buy American Act Certification



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

| - | | | U | |
|-------------|------------------------------|---|---|---|
| re Acc | curacy | Temperature | Output | Display (LCD) |
| ace Wall 3= | 3% | A= None B= Transmitter C= 100PtRTD D= 1000PtRTD E= 10KType 2 F= 10KType 3 G= 10KW/11K H= 3K I = 2K2 J = 1K8 K = 20K | U= Universal (4-20mA, 0-5V,0-10V) 2 or 3-Wire Connection | X= None D=Display |
| | ssed Wall 2= face Wall 3= | ssed Wall 2= 2% face Wall 3= 3% N= 2%/ with | A= None Section Wall 2= 2% 3= 3% N= 2%/ with NIST Cert. D= 1000PtRTD E= 10K Type 2 F= 10K Type 3 G= 10K W/ 11K H= 3K I = 2K2 J = 1K8 | re Accuracy Temperature Output ssed Wall 2= 2% |



CT1R CT1W 5.66 [143.8] (143.8) (76.2) (1.69) (42.9)

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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 | | 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 | |
| Temperature | Accuracy | 2% models, <±1° C; 0.5° C typ @ 25°C 3% models, <±2° C; 0.5° C typ @ 25°C | |
| | Resolution | 0.01° C | |
| | Repeatability | 0.04° C | |
| | Response time (2) | 2s | |
| | Temperature Scaling | 50-95°F (10-35° C) | |
| | Output update rate | 0.5s | |
| | Operating range | -40° C to 140°F (-40 to 60°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.

^{*} 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.