

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

HT1	- Enclosure	Accuracy	Temperature	U Output	Display (LCD)
	R = Recessed Wall	2= 2%	A= None	U= Universal	X= None
	W = Surface Wall	3= 3% N= 2%/ with	B=Transmitter* C= 100PtRTD	(4-20mA, 0-5V,0-10V)	D=Display
		NIST Cert.	D= 1000PtRTD E= 10KType 2	2 or 3-Wire Connection	
			F= 10KType 3	2011112011011	
			G= 10K W/ 11K H= 3K		
			I = 2K2 $J = 1K8$		
			K = 20K L= 100K		

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

Replacement Sensors:

HTW	~	2A	2%, Xmtr or No Temp, HT1W/R & AQ2W			
HTW	1	2C	2%, 100Pt RTD, HT1W/R & AQ2W	HTW	- 3A	3%, No Temp or Transmitter, HT1W/R & AQ2W
HTW	470	2D	2%, 1000Pt RTD, HT1W/R & AQ2W	HTW	- 3C	3%, 100Pt RTD, HT1W/R & AQ2W
HTW	920	2E	2%, 10KType 2, HT1W/R & AQ2W	HTW	- 3D	3%, 1000Pt RTD, HT1W/R & AQ2W
HTW	-	2F	2%, 10KType 3, HT1W/R & AQ2W	HTW	- 3E	3%, 10K Type 2, HT1W/R & AQ2W
HTW	-	2K	2%, 20K, HT1W/R & AQ2W	HTW	- 3F	3%, 10K Type 3, HT1W/R & AQ2W
HTW	-	NA	2% NIST, Xmtr or No Temp, HT1W/R & AQ2W	HTW	- 3K	3%, 20K, HT1W/R & AQ2W
HTW	n=1	ND	2% NIST, 1000Pt RTD, HT1W/R & AQ2W			



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%	0-100% RH		
	Temperature	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		
	B 1.4	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		
Faringananatal	Operating range	-40° C to 140°F (-40 to 60°C)		
Environmental	Enclosure Rating	IP20/NEMA 1		
Compliance	Unit Temp Rating	-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

^{*} 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.