STW-6000 and THW-1100 series
Wireless RF Temperature and Humidity Sensors

Description

These wireless, compact, and stylish room temperature and humidity sensors are designed for use with KMC controllers or other building automation systems.

- Easy mounting to flat surfaces.
- Reduce maintenance with energy-harvesting, solar powered technology.
- Save time and labor cost on installation.
- Choose from models with temperature only, temperature and humidity, and temperature with setpoint.
- Durable, low-profile, thermostat-style case is visually appealing.

STW-6010 and THW-1102

STW-6014


Still . . . Made in the U.S.A.

Specifications

Network interface

- Sensors are BACnet devices when used with a BAC-5301 gateway.
- Compatible with Enocean gateways.

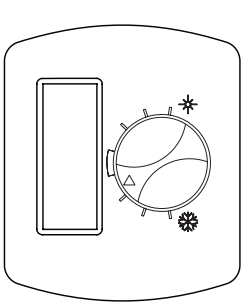
Measurement specifications

Temperature range	32-104° F (0-40 °C)
Temperature accuracy	±0.9° F from 62 to 80° F (±0.5° C from 17 to 27 °C)
Humidity accuracy (THW series only)	+ 5% RH from 30-70% RH from 32-104° F (0-40° C)
Setpoint dial	54-90° F (12-32° C) over 270° rotation
Measurement threshold	
Temperature	±0.9° F (±0.5° C)
Humidity	±2.0%
Setpoint change	±2.8° F (± 1.57° C)
Transmission interval	Every 100 seconds upon change of measurement threshold Between 700 and 1400 seconds without a change of threshold.

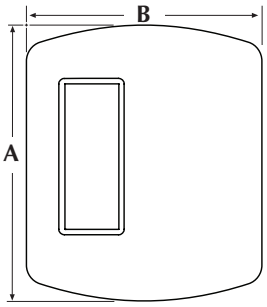
Radio interface

Antenna	Built-in wire whip
Frequency	315.0 or 868.3 MHz See ordering information
Output Power	868.3 MHz: +8 dBm1(EIRP) ± 2.5 dB2 315.0 MHz: +92 dBµV/m1 ± 2 dB2
Regulatory	868.3 MHz: R&TTE EN 300 220 315.0 MHz: FCC CFR-47 Part 15
Estimated range	In closed spaces 33 ft (10 m) or less. In open areas, 98 ft. (30 m) or less. See the publication *Planning Guide For Wireless Sensor Networks* for details.
Material	White flame-retardant plastic
Weight	Approx. 1.25 oz. (35 grams)

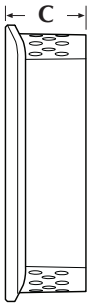
Specifications



STW-6014



STW-6010
THW-1102



Dimensions

A	B	C
2.64 in.	2.25 in.	0.77 in.
67 mm	57 mm	20 mm

Environmental Limits

Operating	23° to 113° F (-5° to 45° C)
Shipping	–40° to 140° F (–40° to 60° C)
Humidity	0 to 95% RH non-condensing

Power

Power supply	Energy harvesting solar cell with optional CR1225 lithium coin cell backup
Time from fully discharged to fully operational	Solar cell only: Typically less than 2.5 minutes with 400 lux of fluorescent or incandescent illumination Instantaneous with battery backup
Illumination	50-100000 lux
Operational time in in full darkness	Typically four days at 25° C with solar cell only. Time is based on a measurement every 100 seconds and transmission every 1000 seconds.

Enocean equipment profiles

A5-02-05	Temperature
A5-10-03	Temperature and setpoint
A5-04-01	Temperature and humidity

Ordering information

For use in North America

STW-6010W	Digital Sensor (Wireless, Temperature, 315MHz, White)
STW-6014W	Digital Sensor (Wireless, Temperature, Setpoint, 315MHz, White)
THW-1102W	Digital Sensor (Wireless, Temperature, Humidity, 315MHz, White)

For use outside of North America

STW-6010DW	Digital Sensor (Wireless, Temperature, 868MHz, White)
STW-6014DW	Digital Sensor (Wireless, Temperature, Setpoint, 868MHz, White)
THW-1102DW	Digital Sensor (Wireless, Temperature, Humidity, 868MHz, White)

Contains FCC ID: SZV-STM310C

These 315 MHz devices comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i.) these devices may not cause harmful interference and (ii.) these devices must accept any interference received, including interference that may cause undesired operation.

Accessories

BAC-5301	Gateway, 315 MHz
BAC-5301D	Gateway, 868 MHz

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