

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.

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.



STW-6010 and THW-1102



STW-6014

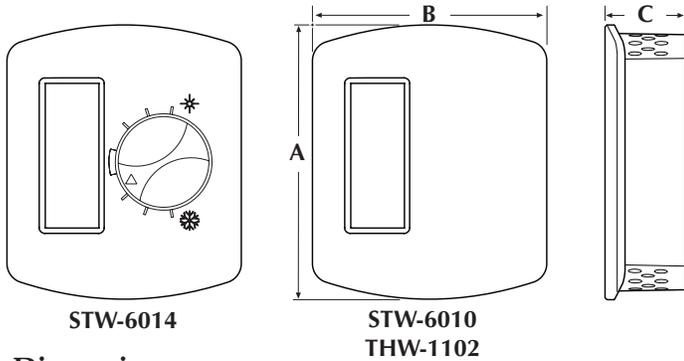


Still... Made in the U.S.A.

Radio interface

Antenna	Built-in wire whip
Frequency	315.0 or 868.3 MHz See ordering information
Output Power	315.0 MHz: +92 dBμV/m1 ± 2 dB2 868.3 MHz: +8 dBm1(EIRP) ± 2.5 dB2 902.875 MHz: +99 dBμV/m1 ± 2 dB2
Regulatory	315.0 and 902.875 MHz: FCC CFR-47 Part 15 868.3 MHz: R&TTE EN 300 220
Estimated range	In closed spaces 33 ft (10 m) or less. In open areas, 98 ft. (30 m) or less. See the publication <i>Planning Guide For Wireless Sensor Networks</i> 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)
STW-6010NW	Digital Sensor (Wireless, Temperature, 902MHz, White)
STW-6014NW	Digital Sensor (Wireless, Temperature, Setpoint, 902MHz, White)
THW-1102NW	Digital Sensor (Wireless, Temperature, Humidity, 902MHz, 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 and SZV-STM332U

These 315 and 902 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

KMC Controls, Inc.
19476 Industrial Drive
New Paris, IN 46553
574.831.5250
www.kmcccontrols.com
info@kmcccontrols.com