

No Wires
No Batteries
No Limits



WT and WTH Series Wireless RF Temperature and Humidity Sensors

Description

These wireless, compact, room temperature sensors are designed for use with EnOcean based devices and can be part of a building automation system, or used as peer-to-peer standalone control of Spartan Peripheral Devices ME8300 series wireless terminal unit control valve actuators.

Features

- Easy mounting to flat surfaces.
- Reduce maintenance with energy-harvesting, solar powered technology.
- Available in models with temperature only, temperature and humidity, and temperature with setpoint.
- Durable, low-profile, thermostat-style case.

SPECIFICATIONS

Temperature range 32 to 104° F (0 to 40 °C)
 Temperature accuracy ±0.9° F from 62 to 80° F (±0.5° C from 17 to 27 °C)
 Humidity accuracy (WTH series only) + 5% RH from 30 to 70% RH from 32 to 104 F (0 to 40 C)
 Setpoint dial 54-90° F (12-32° C) over 270° rotation

Measurement threshold for transmission intervals

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 902.0 or 868.3 MHz
 See ordering information
 Output Power 868.3 MHz: +8 dBm I (EIRP) ± 2.5 dB2
 902.0 MHz: +92 dBµV/m1 ± 2 dB2
 Agency Approvals 868.3 MHz: R&TTE EN 300 220
 902.0 MHz: FCC CFR-47 Part 15
 Conforms to CE/ROHS
 Contains FCC ID: SZV-STM310C
 These 315 MHz devices comply with Part 15 of the FCC rules.

Power

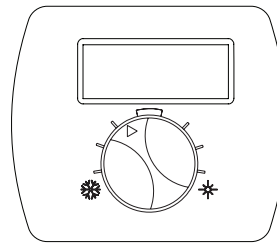
Power supply Energy harvesting solar cell with optional CRI225 lithium coin cell backup
 Time from fully discharges to fully operational Solar cell only: Typically less than 2.5 minutes with 400 lux of fluorescent or incandescent illumination. Instantaneous with battery backup
 Illumination 50-100000 lux
 Operational time in 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.



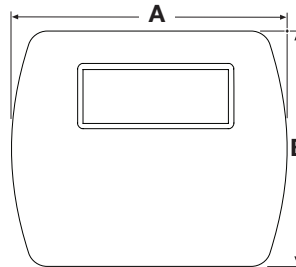
**WT312F, WT812F
WTH815F
WT912F, WTH915F**



**WT813F,
WT913F**



Material
White flame-retardant plastic
Weight
Approx. 1.25 oz. (35 grams)



Dimensions

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

Enocean equipment profiles

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

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

Ordering information

For use in North America 902 MHz, White

WT912F Digital Sensor (Wireless, Temperature)
 WT913F Digital Sensor (Wireless, Temperature, Setpoint)
 WTH915F Digital Sensor (Wireless, Temperature, Humidity)

For use in Europe - 868MHz, White

WT812F Digital Sensor (Wireless, Temperature)
 WT813F Digital Sensor (Wireless, Temperature, Setpoint)
 WTH815F Digital Sensor (Wireless, Temperature, Humidity)

Optional: Add NL to the part number for No Logo on the cover