

Energy Harvesting

The Reliable Controls® SPACE-Sensor™ EnOcean (SSE) delivers a wireless temperature sensor solution made easy with the energy harvesting technology of EnOcean.



Tech Specs

Radio

- Frequency: 315.0 MHz or 902 MHz
- Data rate/Modulation type: 125 kbps/ASK (902 MHz is FSK)
- Conducted output power: typically 7.5 dBm
- EnOcean Equipment Profile: 4BS (4 Byte Sensor group) sensor type designed to the EnOcean Equipment Profiles V2.0 standard
- Radio regulations:
 - R&TTE EN 300 220
 - FCC CFR-47 Part 15

Transmission Range

- 30 m (100 ft.) line of sight*

Temperature Specifications

- 10-bit linear active thermistor
- Range: -8 °C to 39 °C (18 °F to 102 °F)
- ± 0.05 °C (0.09 °F) resolution
- User calibrated to ± 0.1 °C (0.18 °F) accuracy

Photovoltaic

- Lux: 20 min. (2 foot-candles)
- Requires 8 hours of light per day to maintain a 60 second transmit interval

Optional Battery

- CR1632 lithium coin cell

Button

- Optional silicon rubber override button

Dimensions

- 12 cm L x 7 cm W x 2.4 cm H
(4 3/4" L x 2 3/4" W x 15/16" H)

Weight

- 0.09 kg (0.195 lb.)

* Theoretical maximum limit (may be less on site)

Features

EnOcean Enabled

- Fully compatible with existing EnOcean system components
- EnOcean is the wireless standard for sustainable buildings

Energy Harvesting

- Maintenance-free wireless, batteryless sensor solution with energy harvesting photovoltaic cell
- Solar-powered, wireless sensor

Hardware Programmable

- Teach button sends device profile to Accesspoint
- 2 pole DIP switch to configure cyclic wakeup (every 10, 60, 120 sec.)

Aesthetic Design

- Smooth contoured lines
- Slim profile

Optional Pushbutton (-O model)

- Sends momentary on/off signal to receiver
- Soft rubber button design

Optional Setpoint Slider (-S model)

- Sends scalable analog signal to receiver

Optional Battery Backup (-B model)

- Lithium cell provides 5 years operation in no light environment

Optional 902 MHz FSK Radio (-902 model)

- uses frequency shift key (FSK) radio

Warranty

- 5 years

Certification

- FCC CFR 47 Part 15 Class B

Ambient Limits

- Operating: -8 °C to 39 °C (18 °F to 102 °F)
- Shipping: -40 °C to 60 °C (-40 °F to 140 °F)
- Humidity: 10% to 90% RH non-condensing

Ordering

SSE (base model)

- Wireless SPACE-Sensor™ EnOcean with dedicated linear active thermistor

Options

- 902 for 902 MHz radio (leave blank for 315 MHz)
- B (battery backup) adds BR1632 lithium cell
- O adds override button
- S adds slider
- /W for white enclosure (e.g. SSE-B/W)

Accessories

SSEA

- SMART-Sensor EnOcean Accesspoint required to receive EnOcean signals into the MACH-System

APPLICATION DIAGRAM

