

Product Data Sheet

Site Survey Tool - SWSST



Spinwave Systems' mobile Site Survey Tool allows users to easily test the RF link quality and signal strength at desired sensor locations prior to installation. The Site Survey Tool takes the guesswork out of your quotes and installations.

Pushing the survey tool's button will establish a communication link with the closest receiver module. The survey tool's LED and blink pattern will indicate the link quality and signal strength of the 4 best RF channels among all 16 available IEEE 802.15.4 channels.

The LED's color will be a solid green for excellent links. A green blinking LED indicates a good link. The LED's state will change from a steady orange to a blinking orange for marginal signal strength and turn to solid red for out of range conditions.

The survey tool can be switched off by pressing the button for more than 3 seconds. The tool will turn itself off after 10 minutes.

Real-World Ready

Ultra-high reliability means that the wireless sensor network (based on IEEE 802.15.4) outsmarts changing RF interferences with self-adapting frequency agility (patent pending).

Sophisticated power management results in long sensor battery life; 3 to 8 years, depending on transmission intervals.

Easy to use Site Survey Tool simplifies sensor and receiver placements.

Flexibility Included

Interfaces to virtually any building automation (DDC) system.

Sensors can be battery operated or line powered.

Sensor parameters and DDC channel mapping can be easily changed wirelessly.

System health (battery and communication) is continuously monitored.

Order Information

SWSST: Site Survey Tool

SWBAT: 1.5V Lithium AA batteries (2)

Specifications

Enclosure

- Base: Lexan 940, black RAL 9005
- Cover: Cycoloy C 2800, white RAL 9010

Installation

- Handheld

Operating Conditions

- 32°F to 104°F (0°C to 40°C)
- 5% to 95% R.H. non-condensing

Storage Conditions (w/o batteries)

- -40°F to 176°F (-20°C to 80°C)
- 5% to 95% R.H. non-condensing

Radio Characteristics

- 2.4GHz, IEEE 802.15.4
- Receiver Sensitivity
- -94dBm
- Receiver Adjacent Channel Rejection
+/-5MHz, 45/30 dB
- Receiver Alternate Channel Rejection
+/-10MHz, 54/53 dB
- Receiver Channel Rejection
+/-15MHz, 62/62 dB
- Open field Range
up to 700 ft. (230 m)
- In-building Range
120 ft. (40 m) in typical commercial office
building; range heavily dependent on building
material and layout
- Transmission Interval
min. 20 seconds, user configurable

Power

- 2 AA Lithium Batteries, e.g. Energizer® L91,
1.5V, 3000mAh

Agency Approvals

- FCC part 15
- CE

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