



Typical Applications

- Weather awareness
- Aviation industry
- Agronomy
- Hydrometeorology
- Military meteorology
- Maritime meteorology
- Extend wireless communication range by relaying data between SenSpot™ and SeniMax™ when the RF link is weak (Function as a Repeater).
- Gateway (Type cellular) for collecting data from other Resensys wireless SenSpot™s and send them to remote server.

Benefits

- **Long lifetime:** Almost indefinite battery life (rechargeable battery)
- **Wireless transmission:** No wiring is required for data collection
- **Two types:**
 - **Lite:** smaller. Need a gateway to connect to remote server.
 - **Cellular:** has a built-in modem. Does not need a gateway to connect to remote server.
- **Lightweight**
 - Wireless transceiver (Type Lite): 400g (0.88 lb.)

- Wireless transceiver (Type Cellular): 500g (1.10 lb.)
- 2D anemometer with 3m (10ft) cable: 450g (1 lb.)
- Flange-mount, drilling is required (uneven surfaces such as concrete).
- Solar panel with mount and 3m (10ft) cable: 300g (0.66 lb.)

■ **Ingress Protection:** IP67, weatherproof and protected against rain, snow, and UV exposure.

■ **Maintenance free:** No battery replacement, calibration or post-installation maintenance is required.

- **Easy mounting:** Flange mount or adhesive tape
 - Self-adhesive, no drilling is required (smooth surfaces such as steel).
 - Resolution: 0.01m/s
 - Accuracy: $\pm 2\%$ or 0.1m/s (0 to 30m/s) $\pm 3\%$ (30 to 75m/s)

- **Wind direction**
 - Azimuth range: 0 to 360°
 - Resolution: 0.1°
 - Accuracy: $\pm 2^\circ$

■ **Anemometer Dimension:** 34cm (13.4") high x 17cm (6.7")

- **Transceiver Box Dimension:**
 - Type Lite: 140mm (5.50") x 105mm (4.12") x 62mm (2.44")
 - Type Cellular: 155mm (6.125") x 117mm (4.625") x 62mm (2.44")

■ **Power source:** Re chargeable lithium-ion 18650 battery.

■ **Cellular communication (Type Cellular):** 4G global LTE-M/NB-IoT. Nano SIM card.

Specifications

■ **Working temperature:** -40°C to +65°C (-40°F to +150°F).

■ **Wireless Communication range:** 300m (980ft) for reliable communication.

■ **Customizable cable length:** 0.3m (1ft) to 4m (12ft)

■ **Power source:** Re chargeable lithium-ion 18650 battery

■ **Wind speed**

- Range: 0 to 75m/s (0 to 156mph)

Description

SenSpot™ wireless 2D anemometer provides an easy way to install a scalable solution for collecting meteorological data such as wind speed, its direction and temperature.

It comes with a high-capacity lithium-ion battery and a solar panel and its mount. As a result, it does not require battery replacement and once installed, it is almost maintenance free.

There are two different Surface Velocity Radar SenSpot™ types. Lite type is smaller and cheaper but need a gateway for sending the data to remote server while the cellular type has a built-in cellular modem that allow it to connect and send data to remote server without a gateway. The cellular type can function as a gateway at the same time to collect and send data of other Resensys Wireless SenSpot™ s eliminating need for a separate gateway.

It can also serve as SenSpot™ repeater at the same time to extend the wireless communication range between SenSpot™ and SeniMax™.

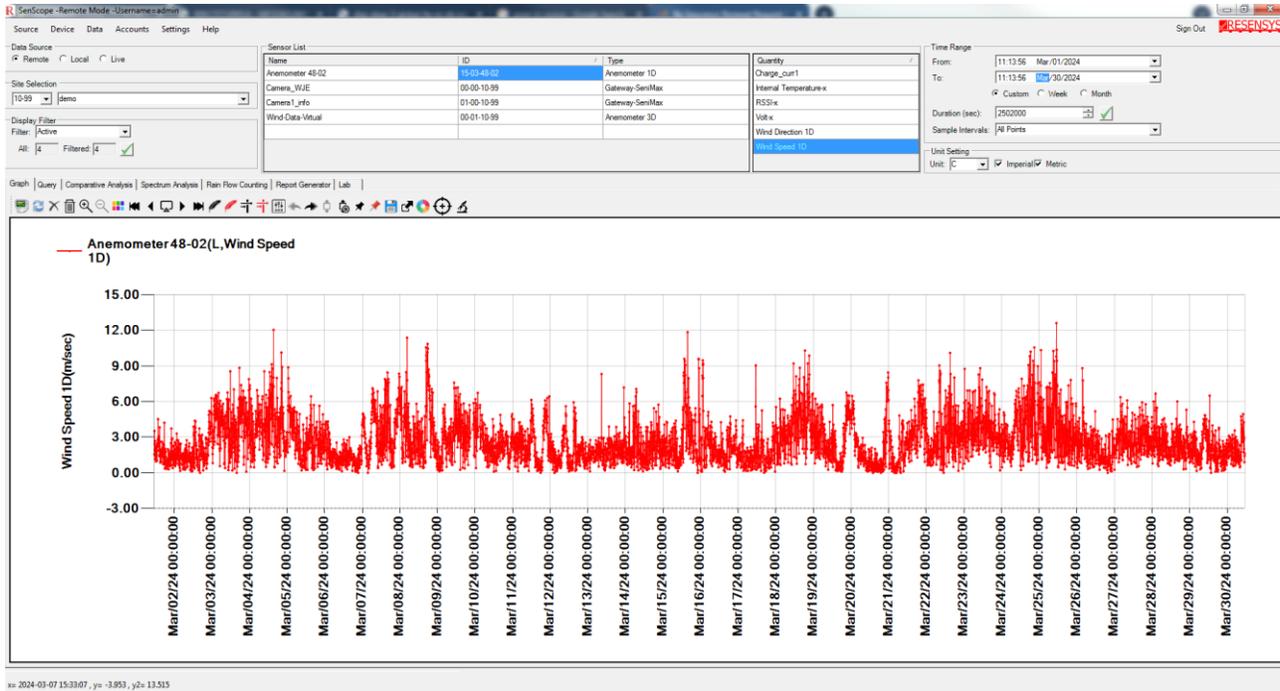


Figure 3: Wind speed readings of an installed Resensys SenSpot™.



Figure 4: An installed Resensys wireless Anemometer SenSpot™ on top of a utility tower

Ordering Information:

Type	Part Number
Cellular (with built-in modem)	SP-AN2-CEL
Lite (smaller, no built-in modem)	SP-AN2-LIT