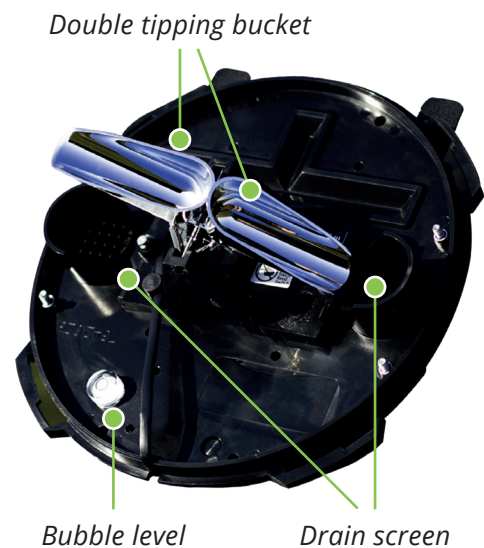
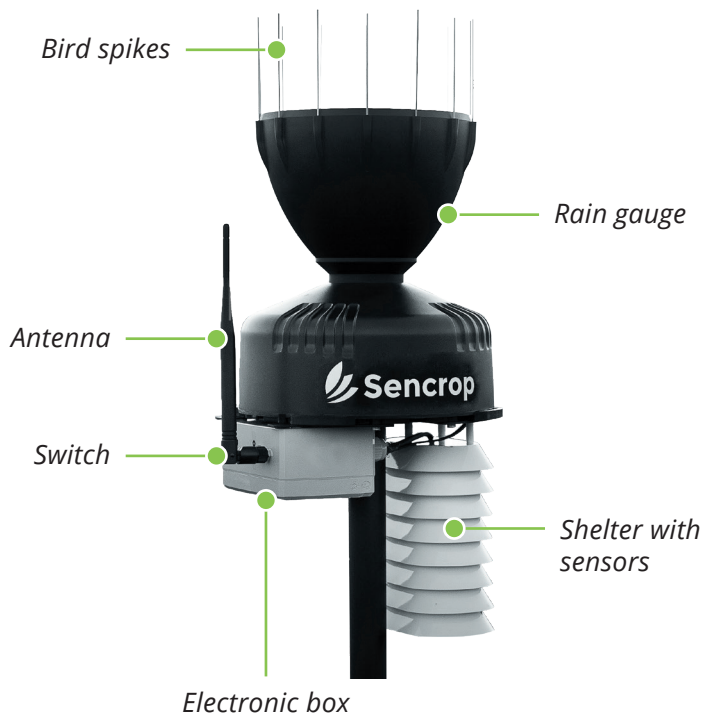


# Raincrop

## The connected rain gauge



### The rain gauge

The Sencrop rain gauge has a double tipping bucket, guaranteeing reliability when taking measurements, even in case of a heavy rain. The aerodynamic shape of its funnel makes it possible to limit the influence of the wind. An anti-clogging system is included in the funnel and facilitates maintenance.

### Measurement of temperature and air humidity

Three sensors are used to make temperature and hygrometry measurements with more reliability and to prevent the drift of measurements over time. This makes it possible to increase the life of the product and to carry out a predictive maintenance.



# Specifications

| <b>Post</b>                                    |  |
|--|--|
| Material                                       | Steel with polyzinc treatment                              |
| Dimensions                                     | Length 210 cm ; diameter 30 mm                             |
| Weight   | 3 kg   |
| <b>Rain gauge</b>                              |  |
| Principle of operation                         | Double tipping bucket                                      |
| Operating temperature range                    | 0 - +85 °C   |
| Measurement range                              | 0 - 1039 mm/h  |
| Accuracy                                       | ±4 % at 50 mm/h  |
| Resolution                                     | 0.254 mm   |
| Collecting surface                             | 214 cm <sup>2</sup>  |
| Material                                       | UV resistant ABS   |
| <b>Temperature and humidity digital sensor</b> |  |
| Operating temperature range                    | -40 °C to +125 °C  |
| Operating humidity range                       | 0 % à 100 %  |
| <b>Temperature measurement</b>                 |  |
| Accuracy                                       | ± 0.2 °C typ. / ± 0.3 °C max. (-40 °C to +90 °C)           |
| Principle of operation                         | Proportional to absolute temperature                       |
| <b>Humidity measurement</b>                    |  |
| Accuracy                                       | ± 2 % typ. / ± 3 % max. RH from 0 °C to 80 °C (full scale) |
| Principle of operation                         | Capacitive polymer sensor                                  |
| <b>Accelerometer</b>                           |  |
| Movement detection threshold                   | 0.3 g  |
| <b>GPS</b>                                     |  |
| Integrated                                     | Automated geolocation                                      |
| <b>Battery</b>                                 |  |
| Battery  | Lithium-Thionyl Chloride - 3.6 V - 19 Ah                   |
| <b>Communication</b>                           |  |
| Network  | Sigfox (Ultra Narrow Band)                                 |
| Frequency band                                 | ISM band at 868 MHz  |
| Data transmission period                       | 15 minutes   |
| Data transmission duration                     | 6 seconds (duty cycle < 1 %)                               |
| <b>Data access</b>                             |  |
| Smartphone, tablet, personal computer          | app.sencrop.com  |



Real time knowledge for rainfall-sensitive businesses.  
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