

RainCrop: the connected rain gauge

Specifications

SUPPORT	Material	Steel with polyzinc treatment
	Dimensions	Length 133 cm ; diameter 25 mm
	Life span	> 10 years
	Weight	3 kg
RAIN GAUGE	Principle of operation	Double tipping bucket
	Operating temperature range	0 – +85 °C
	Measurement range	0 – 762 mm/h
	Accuracy	±2 % at 38.1 mm/h
	Resolution	0.254 mm
	Collecting surface	333.3 cm ²
	Material	Highly resistant polypropylene, UV resistant
	Total dimensions	Diameter 26 cm ; height 37.5 cm
Weight	2.3 kg	
TEMPERATURE AND HUMIDITY	Operating temperature range	-40 °C to +125 °C
	Operating humidity range	0 % to 100 %
DIGITAL SENSOR	TEMPERATURE MEASUREMENT	
	Accuracy	± 0,2 °C (-40 °C to +90 °C)
	Principle of operation	Proportional to absolute temperature
	HUMIDITY MEASUREMENT	
Accuracy	±2 % RH from 0 °C to 80 °C (full scale)	
Principle of operation	Capacitive polymer sensor	
ACCELEROMETER	Movement detection threshold	0.3 g
GPS	Integrated	Automated geolocation
BATTERY	Battery	Lithium-Thionyl Chloride 3.6 V
COMMUNICATION	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 %)
DATA ACCESS	Smartphone, tablet, personal computer	www.sencrop.com

The rain gauge:

The Sencrop's rain gauge is made of a double tipping bucket to assure reliability of rainfall measurement.

