Sigfox Impact Rain Sensor WSSFC-IRS

SKU: WSSFC-IRS

Doc No: WSSFC-IRS-DS-EN-10

Introduction

Sigfox impact rain sensor WSSFC-IRS is a new rain sensor technology. Unlike the traditional methods such as weighing or tipping bucket range gauge, this impact rain sensor has many unique advantages as no maintenance is required, providing real-time information on rain intensity, duration, and accumulated rainfall. It also can distinguish between rain and hail and provide data for both types of precipitation. The measurement principle is using an impact sensor located beneath the stainless steel cover to count every drop of rain. Raindrops hit the surface at their terminal velocity, which is a function of the raindrop diameter. Measurement is based on the acoustic detection of each raindrop as it impacts the sensor cover. Heavier drops create a more significant acoustic signal than smaller drops. Ultra-low-power design and smart firmware allow the complete Wireless and Sensor package to run on AA batteries for up to 10 years. It can support all regions of the Sigfox network over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7. This Sigfox Impact Rain Sensor WSSFC-IRS is very suitable for remote area locations with a maintenance-free design and long battery life.

- Rain measurement for stationary or mobile in city, rural areas...

Highlighted Features

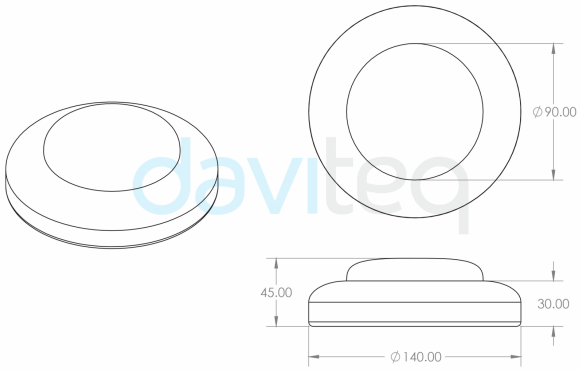
- Compact & Light weight;
- Maintenance-free;
- Not affected by falling leaves, bird dropping;
- 5-10 years battery life;
- Distinguish between rain and hail;
- Report Rain intensity, precipitation and duration;
- IP67 Robust design for outdoor application;
- Sigfox Ready.

SIGFOX IMPACT RAIN SENSOR
WSSFC-IRS



WSSFC-IRS-H1.PNG

DIMENSION DRAWING OF WIRELESS SENSOR
(Unit: mm)



WSSFC-IRS-H2.PNG

Monitor the rain intensity, precipitation and duration in city



Specification

SENSOR SPECIFICATION	
Rain measurement	Intensity, Precipitation and Duration
Measuring range	0..200 mm/h
Resolution	0.1 mm/h, 0.1mm
Accuracy	within +/- 10% of measurement
Working atmospheric pressure	101.3 Kpa +/- 20%
Working temperature	-40 .. + 85 oC
Working humidity	up to 100% RH
SIGFOX SPECIFICATION	
Sigfox zones	select RC1-RC2-RC4
Antenna	Internal Antenna 2 dbi
Configuration	via Downlink or offline USB cable (PC software is supplied at free)
Battery	02 or 04 AA batteries, Type 1.5V or 3.6V
Working temperature	-40°C..+60°C when using Energizer L91 batteries -40°C..+85°C when using LiSOCl2 batteries
Accessories	Standard mounting bracket
Dimensions	D140xH45 without bracket
Total net weight	< 1kg, with bracket and batteries

Ordering Code

Item code	Descriptions
WSSFC-IRS-01	SIGFOX IMPACT RAIN SENSOR, 0-200MM/H, IP67, AA BATTERIES OPERATED, FOR RC1-RC2-RC4

⚠ Link for full datasheet: https://filerun.daviteq.com/wl/?id=d5ZH8aIXIdoXodAPS1mqDrhl52POwnni

⚠ Link for manual:

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Revision #13
★ Created Tue, Aug 24, 2021 9:55 PM by Lộc Vĩnh Nguyễn
Updated Sun, Aug 29, 2021 10:13 PM by Kiệt Anh Nguyễn