

packetSENSE Rainfall Sensor with Solar Panel

The **packetRAINFALL with Solar Panel** is an advanced and low-power rainfall measuring device, offering wireless functionality for easy deployment. Equipped with an open collector output mimicking a conventional tipping bucket, it provides detailed data through serial communications and allows effortless configuration.

This innovative device utilizes infrared light beams to precisely detect raindrop size by analyzing changes in beam intensity. Its sophisticated circuitry and digital signal processing enable accurate detection of even the tiniest raindrops while effectively rejecting ambient light disturbances.



Features

- Downlink configurable uplink interval
- Low-power design
- Redundant solar power supply
- Designed for ruggedized applications, reliable, maintenance-free

Applications

- Weather Monitoring
- Disaster and Risk Management

Technical Specification

Data Communication Supported

Technology	LoRaWAN®
Frequency	EU868/AS923-3
Tx Power	25dBm

Electrical

Power Source	Battery (3.2V) and Solar (5V)
Battery Voltage	3.2V
Battery Type	LiFePO4
Battery Capacity	6400 mAh

RG – 15 Sensor

Input Voltage	5VDC
Current Drain	110 μ A nominal. (No outputs on, dry not raining) 2-4 mA when raining
Operation Temperature Range	-40 °C to +60 °C
Output Resolution	0.02mm

General Specifications

Battery Length	90mm x 152mm x 55mm
Mounting	Pole or Wall Mounted