

LoRaWAN Outdoor Flow Sensor

SW3L-LB



OVERVIEW:

The Dragino SW3L-LB is a **LoRaWAN Flow Sensor**. It detects water flow volume and uplink to IoT server via LoRaWAN network. User can use this to **monitor the water usage for buildings**.

The SW3L-LB will send water flow volume every 20 minutes. It can also detect the **water flow status and send Alarm**, to avoid the waste for water usage such as broken toilet case.

SW3L-LB is designed for both indoor and outdoor use. It has a weatherproof enclosure and industrial level battery to work in low to high temperatures.

The LoRa wireless technology used in SW3L-LB allows device to send data and reach extremely long ranges at low data-rates. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

SW3L-LB **supports BLE configure and wireless OTA update** which make user easy to use.

SW3L-LB is powered by **8500mAh Li-SOCI2 battery**, it is designed for long term use up to 5 years.

Each SW3L-LB is pre-load with a set of unique keys for LoRaWAN registrations, register these keys to local LoRaWAN server and it will auto connect after power on.

Features:

- LoRaWAN 1.0.3 Class A
- Bands: CN470/EU433/KR920/US915/EU868/AS923/AU915/IN865
- Ultra-low power consumption
- Upload water flow volume
- Monitor water waste
- AT Commands to change parameters
- Supports Datalog feature
- Support Bluetooth v5.1 and LoRaWAN remote configure
- Support wireless OTA update firmware
- Uplink on periodically and open/close event
- Downlink to change configure
- 8500mAh Battery for long term use

Order Info: SW3L-LB-XX-YY

XX: The default frequency band

- XX: Frequency Bands, options:
EU433, CN470, EU868, IN865,
KR920, AS923, AU915, US915

YY: Flow Sensor Model

- 004: DW-004 Flow Sensor
- 006: DW-006 Flow Sensor
- 010: DW-010 Flow Sensor

Specifications:

Common DC Characteristics:

- Supply Voltage: 2.5v ~ 3.6v
- Operating Temperature: -40 ~ 85°C

LoRa Spec:

- Frequency Range,
Band 1 (HF): 862 ~ 1020 Mhz,
Band 2 (LF): 410 ~ 528 Mhz
- Max +22 dBm constant RF output vs.
- RX sensitivity: down to -139 dBm.
- Excellent blocking immunity.

Battery:

- Li/SOCI2 un-chargeable battery
- Capacity: 8500mAh
- Self-Discharge: <1% / Year @ 25°C
- Max continuously current: 130mA
- Max boost current: 2A, 1 second

Power Consumption:

- Sleep Mode: 5uA @ 3.3v
- LoRa Transmit Mode: 125mA @ 20dBm,
82mA @ 14dBm

Applications:

- Flow Sensor application
- Water Control
- Toilet Flow Sensor
- Monitor Waste water

Dragino Technology Co., Limited

Room 202, Block B, BCT Incubation Bases (BaoChengTai), No.8 CaiYunRoad
LongCheng Street, LongGang District ; Shenzhen 518116, China
Direct: +86 755 86610829 | Fax: +86 755 86647123

WWW.DRAGINO.COM
sales@dragino.com