

#### Precipitation sensor with IoT transmission



#### **SPECIFICATIONS**

Capacity 0 a 500 mm/h

Resolution<sup>(1)</sup> 0,2 mm

Operating Range -20 a 70 °C | 0 a 100% RH

Maximum accuracy (2) ± 5% @ 0 a 200 mm/h

**Leveling system** Bubble level

#### Bucket orifice opening(3) 314 cm<sup>2</sup>

Funnel Collector Diameter (3) 200 ± 0,5 mm

**Output** 

Double reed-switch ON pulse of 100 ms.

### **APPLICATIONS**



Hidrology









Meteorology Agrometeriology

Sun

Wind

#### **OVERVIEW**

The **PluviDB**-lot is the combination of the traditional PluviDB, widely known in the Brazilian market, now with the addition of embedded electronics capable of recording rainfall data, storing it, and automatically transmitting the collected data.

#### **PRODUCT DETAILS**

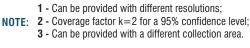
- Unstable tipping bucket principle.
- **Entirely built with rust-resistant materials:**
- With a flow regulator device;
- Aluminum body, stainless steel, and epoxy paint;
- Leveling system with bubble level;
- Internal edges at right angles and external edge at an oblique angle, minimizing wind turbulence effects.
- **ARM Cortex M33**
- 64Mb Flash memory for data storage
- 2 pulse measurement ports
- 1 SDI-12 v1.3 port
- **USB-C** connector
- **Bluetooth LE Low Energy connection**
- LTE frequencies from 700 to 2200 Mhz
- Cat-M1: B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66
- NB1/NB2: B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66
- eDRX and PSM power-saving functions.
- Protocols: MQTT, HTTP, NTP, FTP, among others.
- Primary lithium battery Li-SOCI2 D 3.6V 19Ah

# **APRESENTAÇÃO**

The PluviDB-loT Is based on the modern Nordic Semi nRF9160 chip with ARM Cortex processing core. It simultaneously has 4G - LTE-M Cat-M1 and NB-IoT version 2 (NB2) connections, compatible with 3GPP LTE release 14. It also has GPS reception, and all this with extremely low energy consumption.

Employing the best energy-saving techniques, the PluviDB-IoT operates with a non-rechargeable primary lithium battery that can last up to 5 years.

## **DIMENSIONS**



#### **MANUFACTURER**



Manufacture: Dualbase Tecnologia Eletrônica LTDA.

**Brand:** Dualbase Model: PluviDB-loT

Type: Rain gauge with transmission

The characteristics may be changed without prior notice. July/2024

