

# DATASHEET FULLUP



## A-General

- Dimensions & Materials :
  - Maximum outer diameter: +/- 70mm
  - Minimum outer diameter: +/- 38mm
  - Height: +/- 160mm
  - Weight : ~180gr
  - Housing materials : PA6
  - Environmental protection: IP 67
  - Material compatibility: "Suitable for use in tanks for the storage of water, diesel, fuel, kerosene, AdBlue, gas oil types A2, C1, C2 and D as defined by BS2869"
- Temperature:
  - Operating temperature : - 25 to 70°C
  - Remark: as the Product is always in operation even when not being used (deep sleep mode), the storage temperature is equivalent to the operating temperature.
  - Storage temperature : -20 to 70 °C
  - Remark: the storing temperature range is for after the circuit board is mounted
  - Remark: storage and operation above 30°C may reduce battery life.
  - Humidity range: 0-100% RH non condensing
  - Altitude range : < 2km above sea level

## B- Radio & Electronics:

- Battery type: SCHAFT LS14500 3,6V Li-SOCL2
- Battery life :

Amount of messages send / day	Battery lifetime (Years)
1	10
2	8,7
5	6,1
7	5
10	4,1

- Tank mounting options: Fits directly into female 1 1/4", 1 1/2", 2" BSP threads. 2" BSP is recommended.
- Radio Frequency : EU only: 863 to 870 MHz- ISM band

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- Modulation method: LoRa Technology modulation
- Maximum over-the-Air data Rate: 5468 bps
- Emitter sensitivity: -135dBm
- Radio Output Power: 13,9 dBm
- Status Indication: Vibration Buzzer (Embedded Vibrating Motor)
  - Activation by Magnet: 5 quick Buzz
  - Desactivation by Magnet : 1 long Buzz
  - Self Re-initialising : 1 long Buzz
- Sensor fast mode:
  - Pass the magnet under reference point (cf. User Manual) for fast mode activation.

#### C- Ultrasonic

- Gauge type : Ultrasonic
- Ultrasonic range : from 10cm to 4,5m
- Absolute ultrasonic resolution : 2,5mm
- Absolute Measurement Accuracy: >1,5 cm from 10 to 40cm; ~1cm from 0,4 to 1,8m ; 2 cm from 1,8 to 4m
- Ultrasonic signal diversion : " The maximum spatial diversion of the ultrasonic signal will be <30° from the central axis of the transducer"
- Remark: the FullUp Gauge measures the time-of-flight of the ultrasonic acoustic wave emitted by the transponder as well as the ambient temperature.
- The distance measurement is processed by an algorithm located in the cloud; it can be updated any time and also specifically oriented for specific distances of measurement.

#### D- Optional accessory :

Female 2"-Female 2"BSP thread coupler for inserting the FullUp Gauge in the filling pipe, therefore replacing the filler cap. available in option, on demand.

-Only needed if there is no entry in the tank for a gauge.

