

# SIZZAPP 2-wire device General description

---

SIZZAPP 2-wire device is a tracking terminal with GNSS and GSM connectivity, which is able to collect device coordinates and transfer them via GSM network to server.

## Package contents

---

SIZZAPP 2-wire device is supplied to the customer in a cardboard box containing all the equipment that is necessary for operation. The package contains:

- Already implemented SIZZAPP 2-wire device;
- Pre-installed SIM card (world wide coverage)
- Li-ion battery.

## Basic characteristics

---

GSM / GPRS / GNSS features:

- Multi-band module (GSM 850 / 900 / 1800 / 1900 MHz);
- GPRS class 12;
- SMS (text, data);
- Integrated GNSS receiver;
- Up to -165 dBm GNSS receiver sensitivity.

Hardware features:

- Built-in movement sensor;
- Built-in Bluetooth 4.0;
- Internal High Gain GNSS antenna;
- Internal High Gain GSM antenna;
- 128MB internal flash memory;
- 170 mAh Li-ion rechargeable 3.7 V battery.

Interface features:

- Power supply: 10 ÷ 30 V;
- USB port;
- 2 LEDs indicating device status.

Special features:

- Fast position fix;
- High Quality track even in high density urban canyon;
- Small case;
- High gain internal GNSS and GSM antennas;
- 2 LED status indication;
- Real-time tracking;
- Smart data acquisition based on:

- Time;
- Angle;
- Distance;
- Ignition or any other I/O event.
- Sending acquired data via GPRS;
- GPRS and SMS I/O events;
- Virtual odometer;
- Jamming detection;
- Configurable using Secured SMS Commands;
- Spy call;
- Overvoltage protection.

| Description                           | Voltage      | Duration  |
|---------------------------------------|--------------|-----------|
| Normal operation                      | +10... +30 V | Unlimited |
| Protection turns on, device turns off | 34 V         | Unlimited |
| Maximum voltage                       | < 70 V       | Unlimited |
| Maximum voltage impulse               | 90 V         | 5 ms      |

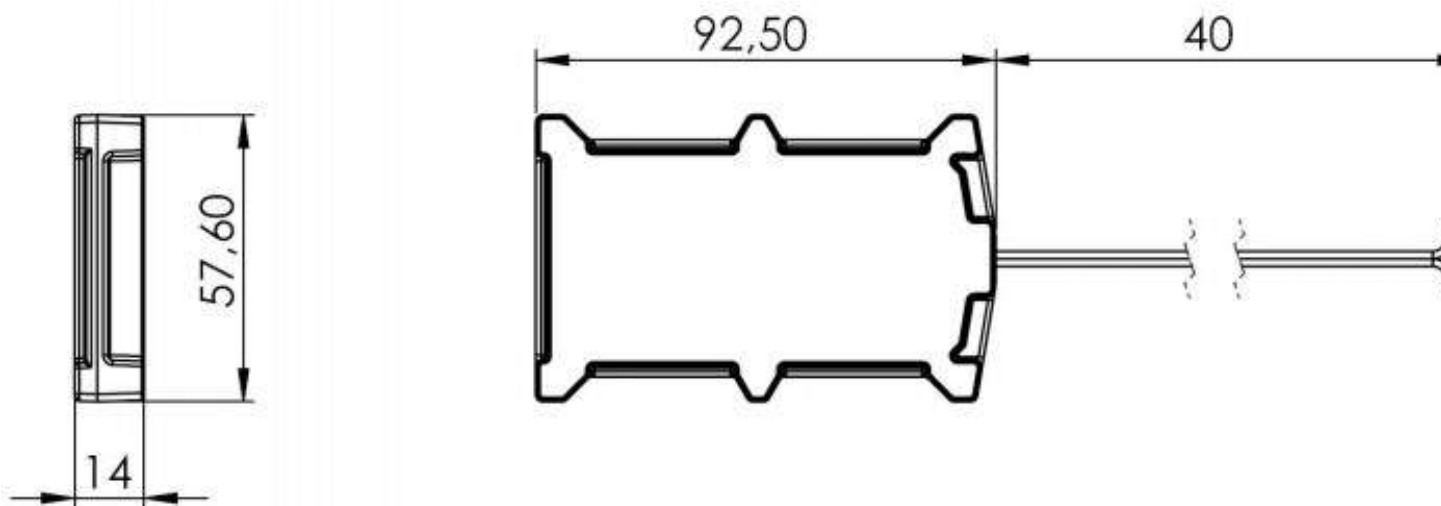
## Technical features

| Part name             | Physical specification |
|-----------------------|------------------------|
| Navigation indication | LED                    |
| Modem indication      | LED                    |
| USB                   | Mini USB socket        |
| GNSS                  | Internal GNSS antenna  |
| GSM                   | Internal GSM antenna   |

### Technical details

|  |  |
|--|--|
| <b>Power supply 10...30V DC<br/>2 W max.<br/>Energy consumption at 12 V:</b> | GPRS: average 6,5 mA,<br>Nominal: average 24 mA,<br>GPS Sleep: average 6,5 mA,<br>Online Sleep: average 5,5 mA,<br>Deep Sleep: average 5 mA,<br>Ultra Sleep: average 2,5 mA, |
| <b>FMT100 Battery charge current</b>   | avg. 120 mA  |
| <b>Rated current</b>   | 250 mA   |
| <b>Operating temperature (without battery)</b>                               | -40..+85 °C  |
| <b>Storage temperature (without battery)</b>                                 | -40..+85 °C  |
| <b>Storage relative humidity</b>   | 5..95% (no condensation)   |
| <b>Internal fuse</b>   | 3A, 125V   |

Dimension drawing (tolerance  $\pm 2\text{mm}$ ):



## Technical information about internal battery

| Internal Back-Up Battery    | Battery Voltage (V) | Nominal Capacity (MAh) | Power (Wh)  | Charge Temperature |
|-----------------------------|---------------------|------------------------|-------------|--------------------|
| Li-ion rechargeable battery | 3.75~3.90           | 170                    | 0.64 – 0.66 | 0 to +45           |

Batteries are covered by 6 month [warranty](#) support.



CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.



Battery should not be disposed of into general household waste.  
Bring damaged or worn-out batteries to your local recycling center or dispose them into a battery recycle bin commonly found in stores.

## Electrical characteristics

| Characteristic description                               | Value |      |      |      |
|--|-------|------|------|------|
|  | Min.  | Typ. | Max. | Unit |
| <b>Supply Voltage:</b>                                   |       |      |      |      |
| <b>Supply Voltage (Recommended Operating Conditions)</b> | +10   |      | +30  | V    |

## Absolute maximum ratings

| Characteristic description                       | Value |      |      |      |
|--|-------|------|------|------|
|  | Min.  | Typ. | Max. | Unit |
| <b>Supply Voltage (Absolute Maximum Ratings)</b> | -30   |      | +30  | V    |