



The Personal Safety Device specifications

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PSD Features

✓ Location Positioning

Using a combination of technologies, the PSD can report location in indoor and outdoor environments using a combination of GPS, location beacons, Wi-Fi, and other advanced integrations.

✓ NFC & Device Interchangeability

The PSD reads NFC IDs to personalize the device data when the ID is inserted, making the device interchangeable between employees.

✓ SOS Button

Whenever the SOS button is pressed, the PSD connects to the cloud server and sends an SOS alarm with the current position.

✓ Temperature Alerting

If the temperature is out of the user-set limits, the device sends a temperature alarm. This alarm is configurable.

✓ Audible Alerting

The PSD is equipped with a piezo buzzer that could be triggered as needed from the CoRe platform (for mass or personal notifications) or in case of specific preconfigured alerts (e.g., notify a person if they spend a certain number of hours in a specific location).



- LTE Cat-M/NB-IoT
- GNSS positioning for precise outdoor location
- Wi-Fi positioning
- FCC and T-Mobile Certified
- Free-fall detection
- NFC tag reader
- SOS button
- Battery status LED
- Temperature sensor
- Barometric pressure
- Movement detection
- Internal piezo buzzer
- Micro-USB for battery recharging
- Nano SIM (4FF)
- Low power management for ultralong battery life applications
- Over-the-air firmware updates
- Water resistant (IP67)

PSD Specifications

Dimensions	91mm x 59mm x 11mm
Weight	60 grams
LPWAN Technologies	NB-IoT (Cat NB2) / LTE-M (Cat-M1)
LTE-M Bands	The following bands can be supported; however, the availability of bands is dependent upon the telecom carrier and antenna configuration: Cat M1: B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85
NB-IoT Bands	The following bands can be supported; however, the availability of bands is dependent upon the telecom carrier and antenna configuration: Cat NB2: B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 28/ 66/ 71/ 85
SIM Card Holder	Nano SIM (4FF)
Location Methods	GNSS / Wi-Fi / Indoor location beacons
GPS Antenna Pattern	Omnidirectional
Battery	Li-Po rechargeable battery. Micro-USB connector for battery recharging
Battery Capacity	1200 mAh
Low Battery Indication	Yes
Sensors	Accelerometer, temperature, barometric pressure
Human Interface	Push button, buzzer, 2x RGB LED
Firmware Updates	Over cellular
Operating Temperatures	-10°C to 80°C
Case Material	ABS
Button Material	TPU

Power Consumption

The PSD is designed to consume power efficiently based on different use cases. With one positioning attempt every 3 minutes and 10 hours of use a day, the PSD has a battery life of 5 days. There are several options to extend the battery life to several weeks based on the type and frequency of data required. It takes 90 minutes to fully charge the device using a micro USB cable and provided wall charger.

Privacy

The PSD and the Connected Resources platform overall are designed to ensure optimal personal privacy for the employee. Below are key features that make the PSD a device that respects personal privacy.

1. NFC assignment can only be used to process data when a worker's badge is in the device.
2. The PSD itself is not aware of any PII.
3. The system does not require any integration with personal phones.
4. The device can be switched off.



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