

SEAL Ex Wearable GPS Tracker

ATEX Rated Tracker for Geo Localizing Personnel

The **SEAL Ex** is an ideal solution for geo localizing your personnel in the field. This device provides GPS enabled, near real-time satellite location tracking with LoRaWAN®. Rated IP67 and ATEX Class 1/Zone 2 certified, the sensor is designed for the most demanding installations where combustible gasses, vapours or dusts may be present. The device contains 3x AA batteries for optimal battery life of up to 8-12 months. The unit is equipped with an accelerometer to accommodate fall detection and event-based start-up, minimizing unnecessary battery usage. The SEAL Ex wearable Tracker is also seamlessly integrated with TEKTELIC's End-to-End IoT solution.

Technical and Functional System Specifications

General System Parameters

Operational Temperature	-20°C to +50°C
Protection Rating	IP67
Size	100 x 72 x 24 mm
Battery	3x AA Batteries

LoRa Parameters

RF Power	23 dBm
RF Sensitivity	-137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A

Regulatory Compliance

Safety	EN 62368-1-2014 (CE)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
ATEX Specification	EN 60079-0-2013
	EN 60079-11-2012
ATEX Marking	<Ex> II 2G Ex ia IIC T4 Gb
	<Ex> II 2D Ex ia IIC T125° Db IP67

Specifications are in progress and subject to change*

GNSS Features

Position Accuracy	2.5 m
TIFF (Time to First Fix)	Cold Start - 26 Seconds
	Hot Start - 1 Second
Sensitivity	-164 dBm tracking and navigation
	-148 dBm cold start
	-157 dBm hot start



Key Features

- » 8-12 Month Battery Life
- » Precise GPS for Positioning & Geofencing
- » Data Transmission via LoRaWAN®
- » Integrated BLE
- » All Global ISM bands
- » ATEX Class 1/Zone 2 Certification
- » Fall Detection
- » Integrated Panic Button for Real-Time Alerts
- » Optional Harness Clip Detection