

SEAL Wearable GPS Tracker

LoRaWAN® connected GPS Tracker for Locating Personnel

SEAL is an ideal solution for tracking your personnel working remotely in the field. This device provides GPS enabled, near real-time satellite location tracking with LoRaWAN®. The rugged IP67 design allows for operation in diverse deployment environments, with an operable temperature range of -20°C to +50°C and BLE integration for continued tracking indoors. SEAL contains 3x AA batteries for optimal battery life of up to 8-12 months. SEAL is designed to identify fall detection and provide no-motion alarms for enhanced worker safety. The SEAL wearable Tracker is 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	IEC 60950-1 (CE)	
Regulatory	ETSI EN 300 220	
	ETSI EN 301-489-1/-3	
	FCC 15.247	FCC 15.209
	RSS-247	RSS-GEN

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

- » Fall Detection & No-Motion Alerts
- » Precise GPS & Integrated BLE
- » Data Transmission over LoRaWAN
- » Event-Based Startup
- » Geofencing Capabilities
- » Audio & Visual Alarms
- » Optional Harness detection
- » 8-12 Month Battery Life
- » Rugged IP67 Design