

# SEAL Wearable GPS Tracker

## LoRaWAN<sup>®</sup> 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<sup>®</sup>. The rugged IP67 design allows for operation in diverse deployment environments, with an operable temperature range of -20°C to +60°C and BLE integration for continued tracking indoors. SEAL provides up to 15 months of battery life. SEAL is designed to identify fall and impact detection 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 +60°C
Protection Rating	IP67 104 x 70 x
Size without safety clip*	34 mm 104 x 70 x
Size with safety clip*	56 mm 3x AA
Battery	(LiFeS2)
Battery Life	15 Months

\* Excluding belt & strap clips

#### LoRa Parameters

RF Power	14 dBm
RF Sensitivity	-137dBm (SF12, 125kHz)
ISM Band	All Global ISM Bands
Antenna	Internal
LoRa Device Class	Class A

#### GNSS Features

Position Accuracy	5 m
TTFF (Time to First Fix)	Cold Start - 30 Seconds
	Hot Start - 1 Second
Sensitivity	-167 dBm tracking and navigation
	-160 dBm reacquisition
	-148 dBm cold start
	-159 dBm hot start

#### Key Features

- » Fall Detection
- » Elevation Detection
- » Optional Harness Detection
- » Precise GPS & Integrated BLE
- » GNSS Datalogging
- » Data Transmission over LoRaWAN
- » Event-Based Startup
- » Geofencing Capabilities
- » Audio & Visual Alarms
- » 15 Months Battery Life
- » Rugged IP67 Design

#### Regulatory Compliance

Safety	(CE) EN IEC 62368-1:2020 (Ed. 3)
Regulatory	ETSI EN 300 220
	ETSI EN 301-489-1/-3
	FCC 15.247      FCC 15.209
	RSS-247          RSS-GEN