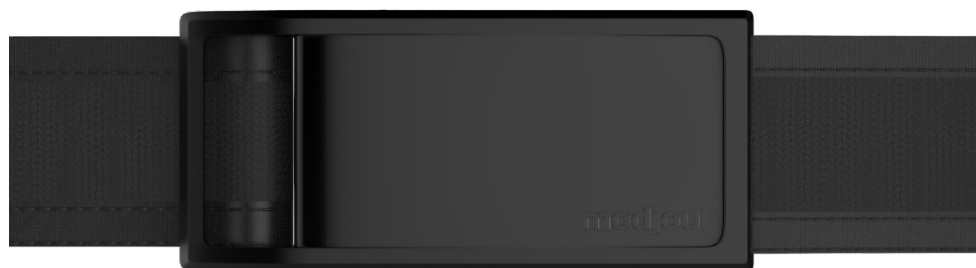


## Product Description

The Modjoul SmartBelt is a workplace wearable designed to measure employee safety and work time. The sensors in the SmartBelt collect various data from the user to determine their activity while on the job. By collecting data such as location, speed, altitude, ambient temperature-pressure, humidity and motion, companies can eliminate employee injuries in the workplace through data and actionable insights.



## SmartBelt Sensors

| Sensor        | Number | Max Value     | Min Value     | Data Acquisition Frequency |
|---------------|--------|---------------|---------------|----------------------------|
| Accelerometer | 1      | 4 g           | -4 g          | 10 Hz                      |
| Gyroscope     | 1      | 2000°/sec     | -2000°/sec    | 10 Hz                      |
| Magnetometer  | 1      | +4800 $\mu$ T | -4800 $\mu$ T | 10 Hz                      |
| FSR           | 2      | 100 N         | 0             | 10 Hz                      |
| Altimeter     | 1      | 30,000 ft     | 0             | 10 Hz                      |
| Humidity      | 1      | 100% RH       | 0             | 1 Hz                       |
| Temperature   | 1      | 185° F        | -40° F        | 1 Hz                       |
| GPS           | 1      | NA            | NA            | 1 Hz                       |

## Range of Operation

|                                     |  |
|-------------------------------------|--|
| Operating Temperature of SmartBelt: | -4° F to 140° F  |
| Operating Voltage of SmartBelt:     | 3.3 to 4 V   |
| Operating Current:                  | 100-120 mA when Wi-Fi is off<br>200-220 mA when only Wi-Fi is on |
| Peak Current:                       | 1A when Wi-Fi is transmitting                                    |



# SmartBelt Hardware Specifications

## Battery Specifications

| Parameter        | Value  |
|------------------|--------|
| Normal Voltage   | 3.7 V  |
| Minimum Voltage  | 2.50 V |
| Charging Current | 440mA  |
| Charging Voltage | 4.2 V  |

## Device Dimensions

|                   |  |
|-------------------|--|
| Buckle:           | 63.5 x 38.1 x 10 mm = 2.48 x 1.5 x 0.39 inches                     |
| Waist Size 30-32: | Small (44 x 1.5 x 0.7 inches = 1117.6 x 37.5 x 18 mm)              |
| Waist Size 33-35: | Medium (47 x 1.5 x 0.7 inches = 1193.8 x 37.5 x 18 mm)             |
| Waist Size 36-38: | Large (50 x 1.5 x 0.7 inches = 1270.0 x 37.5 x 18 mm)              |
| Waist Size 39-41: | Extra Large (53 x 1.5 x 0.7 inches = 1346.2 x 37.5 x 18 mm)        |
| Waist Size 42-44: | Extra, Extra Large (56 x 1.5 x 0.7 inches = 1422.4 x 37.5 x 18 mm) |
| Weight:           | .85 1b   |

## General Specifications

|                              |  |
|------------------------------|--|
| Memory Card Storage:         | 8 GB   |
| GPS Accuracy:                | 3 meters when outdoors and clear line of sight with sky  |
| GPS Signal Acquisition Time: | 1-2 minutes in clear weather with antenna facing the sky |
| Wi-Fi Frequency:             | 802.11 b/g/n and 20 MHz band. 2.4 GHz ISM band           |
| Wi-Fi Module FCC ID No:      | 2ADHKATWINC1500  |
| Charging Interface:          | Micro-USB charging input on SmartBelt buckle             |
| Water Resistivity:           | IP43   |
| FCC ID:                      | 2AKXS-EJGKAJ3531   |