Hardware
SmartOne Solar

Solar powered and designed for tough environments, this industrial IoT asset tracking device is intrinsically safe and maintenance free for tracking, monitoring and data collection.

SmartOne Solar's integrated solar panel and battery capabilities deliver up to 10 years of life with little to no maintenance required. This asset GPS tracking device easily mounts to any fixed or mobile asset for intelligent tracking, monitoring. SmartOne Solar has unparalleled safety/device certifications such as ATEX, IECEx and North America, IP68/69K, HERO certifications, and others to meet the needs of every application.

Wide range of reporting capabilities Including;
- GPS Location reporting in 4 modes
- Geofencing with configurable range setting
- Stationary or in-motion reporting
- Reduced messaging & theft recovery modes
- Receives and transmits data from external sensors
- 12 different reporting times
- Interval or 24-hour operation mode
- Alternate reporting schedules
- Low battery message
- Motion Sensor/Vibration parameter and scheduling
- Contact closure parameters
- Diagnostic messages
- Include Speed and Heading data in reported motion messages

Accessing Data

To view the GPS data and various messages, log into your MyFleetistics account. Click here. On the left, under the Telematics & Dashcam menu, select Fleetistics CORE. You can view the location of each message, administrative messages such as battery power and GPS satellites, and the location of each message on the map. This device is not like a vehicle tracking system. It is low resolution due to the per message cost.

Programming

Devices must be returned to Fleetistics to be programmed. It is important to clearly communicate your tracking goals so Fleetistics and properly program the device or advise what the device can do if it does not match your goals exactly. It is highly recommended that customers purchase one device to test the configuration before ordering more in order to dial in the configuration before deploying multiple devices.

Turn Device On/Off

Hardware

The unit is turned on/off using a magnetic switch found in the black rubber piece. Remove the black rubber piece to turn the unit on. Keep this in a safe place. Any properly sized magnet with sufficient pull can be used if the original magnet is lost. Replace the rubber piece to turn the unit off. If shipping the unit via postal or courier service, it is imporant to turn the unit off using the rubber piece so the unit is not active while in transit. The on/off can also be used to establish a starting location with certain types of configurations.

Messages

Satellite communication handled is manage by messages, not by megabytes like a cellular communication device. Each message either counts toward a message plan (ex 100 msg per month) or a fee is charged per message above the plan allotment. Improper mounting and programming can lead to more messages being used than intended.

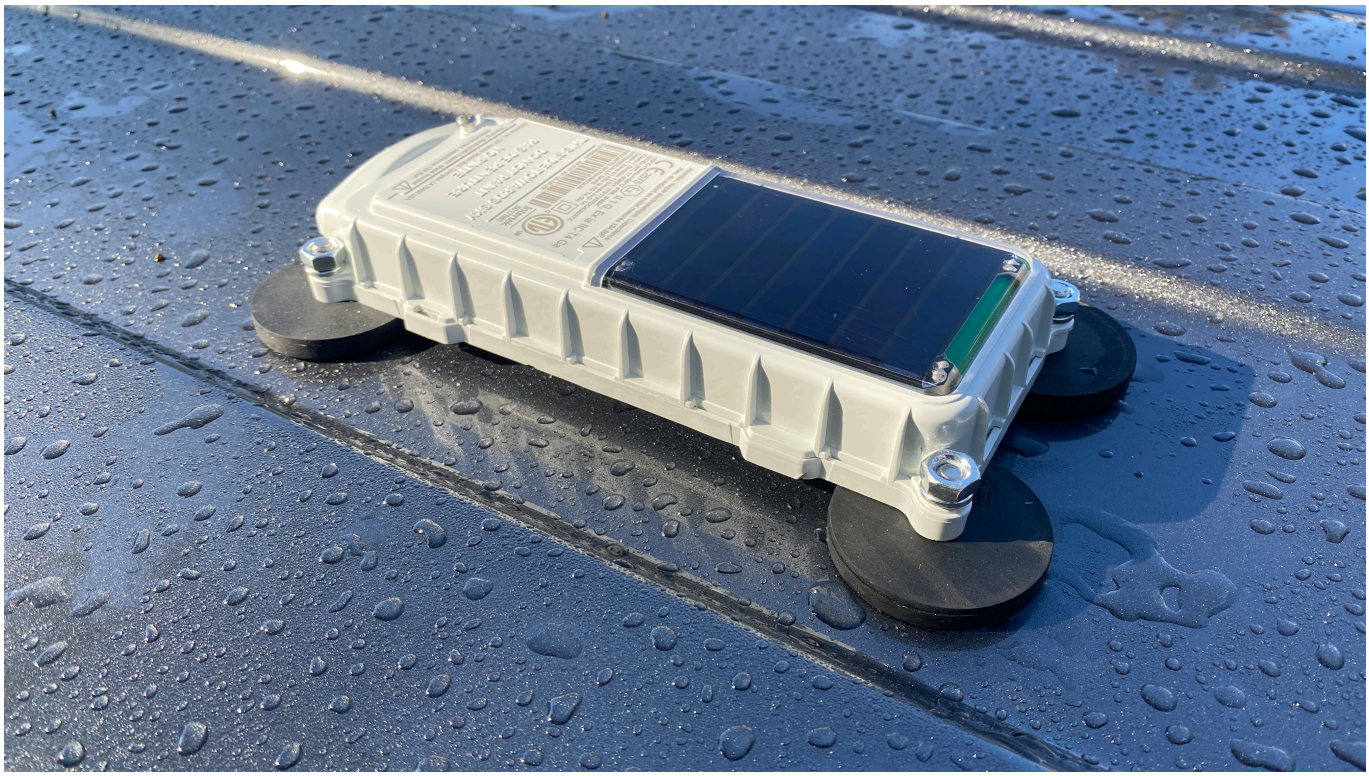
Installation Mounting Guidance

For optimum performance, mount the unit on a flat surface with a clear view of the sky. It is not designed to be mounted vertically. Although you may get some communication, updates will be less consistent and solar recharging will be reduced.

- Screws with rubber washers (preferred)
- Magnets (purchase online)
- Rivots
- Metal zip ties

- Test the solar GPS device before deploying to the field
- Document the vehicle and the solar GPS unit so you can label them correctly in the GPS software online
- Power the device on by pressing the black button seen in the image. Listen for the click.

- If you ship the device the power must be off. Press the power button listening for the click.
- View the lights to ensure proper function.
- When testing the device should be outside with a clear view of the sky and in a good cell area for the network used.
- Do not pressure wash the units from less than 3′.
- Look at your GPS account online daily or weekly to spot issues quickly.



Approximate Coverage Area

The unit uses satellite communication, not cellular. Satellite communication provides coverage in many areas not available using cellular towers. Due to differences in frequency, satellite communication is much more sensitive to interferene from overhead obstacles compared to cellular communications. A cell phone will work in your home becuase the frequency and range enables the signals to pass through many obstacles. With a satellite phone, you must be outside with a clear view of the sky. In fleet tracking, this means limited overhead obstacles such as trees and buildings.

Specifications

DIMENSIONS
3.25 IN (H) X 7 IN (W) X 1.125 IN (D)
8.26 CM (H) X 17.78 CM (W) X 2.86 CM (D)

WEIGHT
13.5 oz/385 g
With optional mounting bracket 40.57 oz. (1150 g)

OPERATING TEMPERATURE*
-40° C to +65° C (-40° F to 149° F)
NOTE: The unit is certified intrinsically safe for hazardous environments over the

temperature range of -40° C to +65° C (-40° F to 149° F).

INPUT VOLTAGE
10 TO 48 VDC
NOTE: Device is not intrinsically safe when any cable is connected.

BATTERY TYPE
Built-in rechargeable NiMH batteries (non-replaceable)

CERTIFICATIONS & STANDARDS

- FCC, ISED, CE, AUS/NZ, ANATEL, INMETRO CERTIFICATE – LMP 19.0127 X, JQA(JAPAN), IFT, ARECOM, ENACOM, KCC, NCC, ASEP AND ICASA
  II 1 G,Ex ia IIC T4 Ga For international Zone 0 applications, HERO
- North America cETLus:
  - Class I, Division 1, Groups A-D, T4
  - Class I, Zone 0, AEx ia IIC T4 Ga
- WEEE Compliant
- GMPCS-MoU
- IP68/69K
- MIL-STD-810G for:
- Immersion
- Impact resistance
- Salt Fog
- Acidic Atmosphere
- Humidity
- Vibration

Unique solution ID: #1358
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- ATEX/IECEx