samsara

Unpowered Asset Tracker

AG46 Datasheet

OVERVIEW

The AG46 Unpowered Asset Tracker is a wallet-sized tracker ideal for monitoring assets like intermodal containers, construction equipment, dumpsters, light towers, and other mobile assets. It features customizable GPS check-ins, a lithium battery that lasts 1-3 years, and a waterproof and ruggedized enclosure. The AG46 enables increased asset utilization, theft recovery and optimized pool inventory management. It is part of Samsara's complete sensor system that combines asset tracking, fleet management, safety, and compliance solutions in a single platform.

CONNECTIVITY

Cellular	LTE-M
Offline Storage	Built-in flash memory logs data when Internet connectivity is unavailable
Security	All Internet connectivity secured via HTTPS with TLS encryption

Technical Specifications

LOCATION

GPS	Advanced positioning system simultaneously reads from multiple independent satellite systems including GPS and GLONASS global navigation satellite systems. Internal antenna for discreet installation. Industry leading -146 dBm sensitivity with ~7 second time-to-fix (hot start).
Default Check-in	Twice per day

POWER

Battery

- 4 specialized lithium batteries (standard lithium AA batteries do not work)
- Typical battery life 1-3 years depending on check in rates (default 2 check-ins/day)
- Actual battery life may be affected by extreme temperature or cellular signal strength
- User-replaceable batteries available for purchase at www.samsara.com/webstore [select "AG46 battery replacement pack" under Accessories)
- For questions about the safe use of lithium battery powered devices, please consult your company's safety department

Battery Life Expectancy	Envioronmental factors (distance to cell tower, signal strength, extreme temperatures)		
Number of pings per day	Best	Average	Worst
2	2.5+ years	1.8 years	0.9 years
4	2 years	1.4 years	0.7 years
8	1.5 years	1 year	0.5 years

ENCLOSURE

Material	Polycarbonate
Dimensions	70 × 112 × 29 mm
Weight	162 g
Operating Temperature	-20°C to 65°C
IP Rating	IP67 (weatherproof and water resistant up to 1m submerged)

Technical Specifications (cont'd)

SAFETY, HAZARDOUS LOCATIONS, & COMPLIANCE

Hazardous locations	US (UL) - Class I, Division 2, Groups A, B, C, D, Temperature Class T4

SAMSARA CLOUD

Features	• Map-based location tracking • Ability to customize ping rates and switch to real-time for theft detection for theft detection • Developer APIs • Alerts • Geofence

INSTALL ACCESSORIES

Regulations

IC REGULATIONS

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with Innovation, Science and Economic Development Canada RF exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

CAN ICES-3(B)/NMB-3(B)

IC Radiation Exposure Statement:
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

IC Déclaration d'exposition aux radiations:
Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

Regulations (cont'd)

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.