Working with the Asset Tracker AT1 GenQ Devices

OVERVIEW

The **AT1 GenQ devices** provides you with continuous visibility on the location of your high-value assets, thus reassuring you that they are safe and secure.

AT1 GenQ is small, durable, and well-suited for a wide variety of applications, from Transportation and Agriculture to Food Services, Pharmaceuticals, Law Enforcement, Fire, and Emergency Management Services.

Whether used to oversee industrial equipment, trailers and containers left on sites for long periods or to track valuable tools critical to daily operations; the AT1 GenQ devices are secure and reliable for asset tracking.

AT1 GenQ devices support the following sensors:

- Internal Battery Level,
- Temperature (ambient),
- Barometric Pressure (ambient),
- Light (ambient),
- Humidity (ambient),

Below given Sensors only applies to the **AT1 GenQ Wired**:

- External Temperature (Available in the future)
- Ignition State
- External Power State (Available in the future)
- Analog data (Available in the future)

In this quick reference card, we will discuss the overview of the AT1 GenQ devices.

KEY BENEFITS

Let's review the key features of the **AT1 GenQ devices below:**

- The device Operates on the **LTE-M low power** network.
- The device is certified as a FirstNet capable device that Public Safety users can use.
- The device is one of the **market's smallest** and **most affordable** asset trackers.
- The device captures **humidity, temperature, light and impact stats**.
- It has Additional external sensors such as **ignition** and **temperature**.
- The device applies to any **non-powered** device.
- The device is **quick** and **easy to** install.
- The device runs on the **LTE-M network** and receives automatic software updates over the air.

Quick Reference Card

AT1 GENQ MODELS

AT1 GenQ Solar

- It uses a rechargeable **3.7 V 2700 mAh Lithium- Polymer battery.**
- The device has Up to **5-year battery life** with one ping a day or 1500 snapshots on a full charge.
- The device wakes up on the scheduled **Device Data Settings (DDS)**, intervals transmit location and sensor data and then returns to sleep mode.
- The device has the option to enable **motion detection** from the Device Data Settings module.

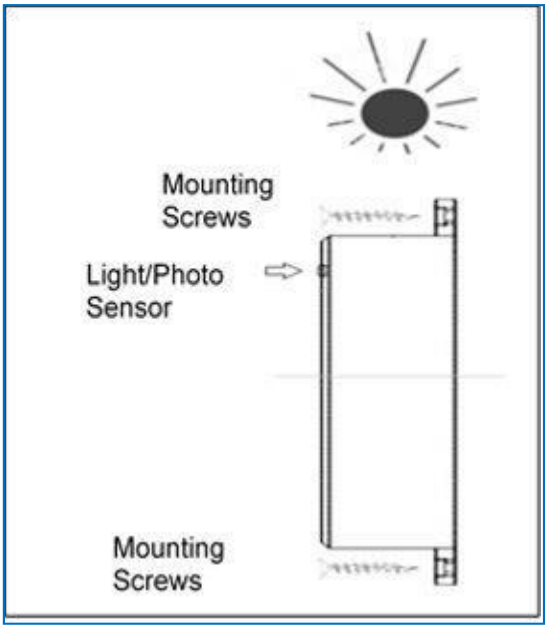
AT1 Wired

- AT1 wired supports all the features listed for AT1 solar and,
- It supports ignition detection.
- It supports **four external temperature** probes.
- The device supports one **Input and an Analog** Sensor.

INSTALLING THE AT1

Let's review below how to Install **AT1 GenQ Solar devices**:

1. Determine the optimal mounting location of the device, ensuring that it will not interfere with the regular operation of the asset.
2. The device should be mounted vertically on a flat surface with the sensor opening on the upper side and a clear line of sight to the sky for optimal GPS coverage.
3. Use two self-tapping screws to mount the device on a flat mounting surface.



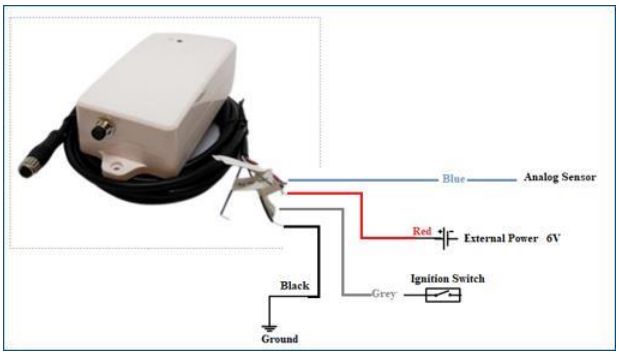
Quick Reference Card

Notes:

- *Do not overtighten the self–tapping screws as they will crack the base.*
- *Avoid mounting the Device under heavy metal as this will reduce GPS and cellular transmission range and effectiveness.*

For the **AT1 GenQ Wired**, only connect the current wires:

1. Red wire: Connect to an external power source that provides at least 6V.
2. Grey wire: Connect to an external power source with red wire or an ignition wire.
3. Black wire: Connect to the chassis ground or the battery's negative terminal.



BATTERY

The AT1 Solar has a Solar Panel that recharges the battery, and you can connect the AT1 Wired Device to a power source to recharge the battery.

The maximum charge for the batteries in AT1 Solar and AT1 Wired Devices is **4.2V**, and the minimum is **3.55V.**

The AT1 Solar requires **60 hours** of uninterrupted bright sunlight exposure to charge it from a fully drained battery to a fully charged battery.

Battery Level Thresholds (in V) are as follows:

- Excellent: 4.2 above
- Good: 3.8 above
- Warning: 3.65 above
- Maintenance: below 3.55

Note: For the AT1-GenQ Asset Tracker, the default setting takes a position once every 24 hours when stationary and not attached to a battery or power source and every 1 hour when connected to a power source and in motion.