



Search

Articles in this section



LocoTrack Primary User Manual

a few seconds ago · Updated



Overview

System Loco Ltd's 'LocoTrack Primary' is designed for detecting the presence of LocoTags in transit for supply chain, logistics and asset monitoring applications.

There are three variants:

- HGD4 - a disposable device designed for close tracking of packages, containing 4 AA alkaline batteries.
 - NOTE the HGD4 supports a circular economy approach to supply chain tracking, with recovered devices being easily refurbished and re-used
- HGP4 - an ultra long-life asset tracking device placed on or inside a package or fixed to an asset, containing 8 AA alkaline batteries.

- HGC4 - a long life asset tracking device for pallet tracking, mounted in the pallet, containing 4 C-cell alkaline batteries.

Please contact System Loco at systemloco.com for further details or technical assistance

Key Features

- Easy to install, and pre-configured for use
- Works indoors & outdoors
- WiFi, LTE-CatM & 2G comms
- NIST traceable temperature sensor
- Detects LocoTags
- Can beacon as a LocoTag
- IP67 waterproof rating
- Flight mode capability

Activation

Configure the device behaviour using the locoaware.com portal.

Click the button to turn the LocoTrack Primary device on and begin using.

Operation

The LocoTrack Primary was designed for simple operation.

There is only one button for the LocoTrack Primary. The button will activate the unit and force a report. Once the button is pressed it will do a full report with GPS. The LED will indicate the device's progress. With the device 'on,' it is ready to be used for its normal operation.

Please see [LED patterns](#) in the System Loco Knowledge Base for more details.

The HGD4 variant can be remotely de-activated on locoaware.com to preserve battery and re-use the device for new shipments.

The LocoTrack Primary supports LocoTag BLE tag tracking capabilities. LocoTag association is performed in the LocoAware application.

NOTE: Monitor the device behaviour with your login to the locoaware.com portal.

Operating Conditions

- -20 degrees C to 55 degrees C
- IP67

Operating Cycle

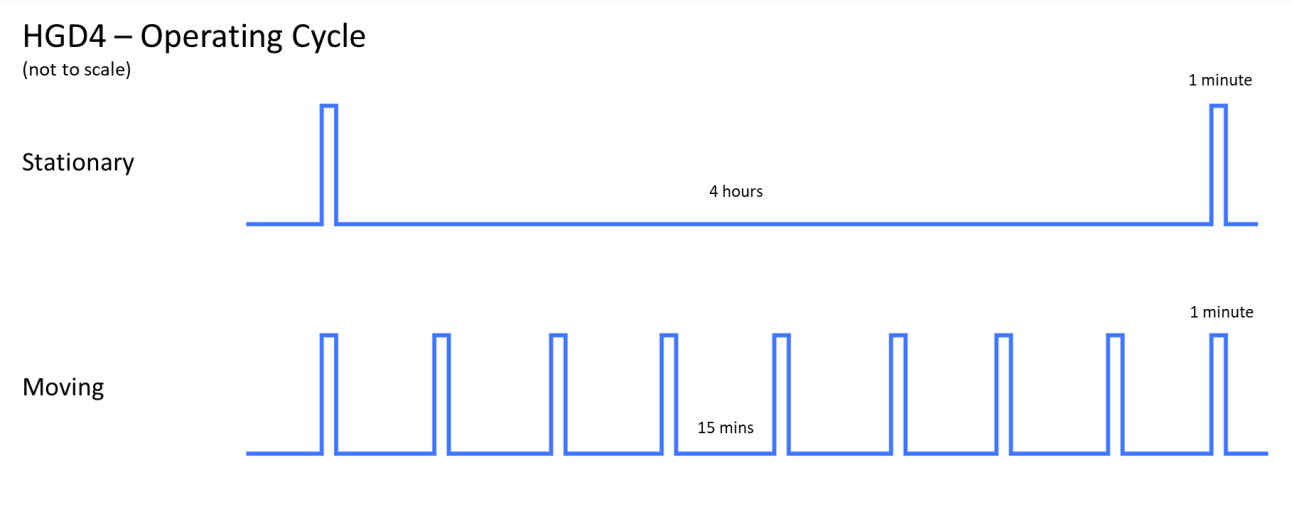
When installed the LocoTrack Primary is placed inside or onto an asset and turned on.

For both variants, the device will only be handled by human operators when it is installed and when it is removed from an asset. After it is removed, the device is switched off and (typically) recycled.

HGD4

The LocoTrack Primary can be configured to operate in different ways. The device wakes up periodically to perform operations. Between operations the device's radios are asleep.

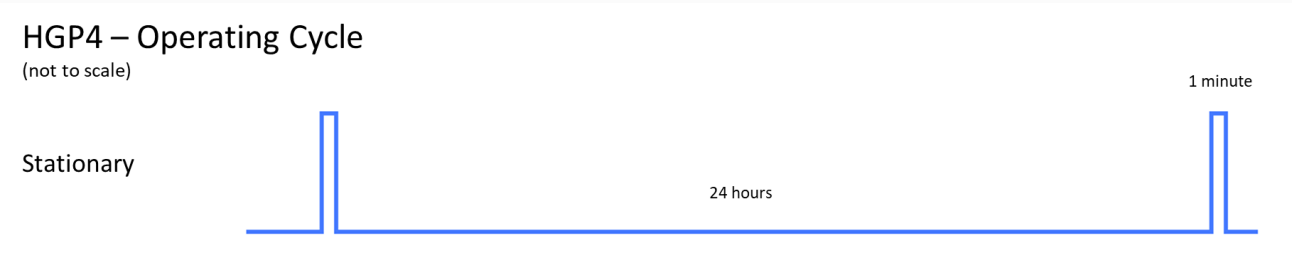
In the expected use case for the HGD4 the operating cycle will be as follows:



When the device is stationary, every four hours the device will wake up, perform radio operations and go back to sleep. The on-time is usually 1 minute. The moving state is used when the device is packaged inside a shipment of goods and is in transit by sea, air or ground (during which periods, the device is not handled).

HGP4

In the expected use case for the HGP4 the operating cycle will be as follows:



The device will wake up once every 24 hours, perform radio operations and go back to sleep. The on-time is usually 1 minute.

HGC4

The HGC4 operating cycle is the same as the HGP4

The HCC operating cycle is the same as the HCR.

Electrical Ratings

Batteries

Power is delivered by internal AA batteries.

- HGD4 - 4 AA alkaline batteries delivering up to 6.4V and a peak of 1.5A
- HGP4 - 8 AA alkaline batteries delivering up to 6.4V and a peak of 1.5A
- HGC4 - 4 C cell alkaline batteries delivering up to 6.4V and a peak of 1.5A
- Do not expose to temperatures > 54°
- Do not incinerate or disassemble.
- Recycle after use.

Product Certification

This product has been certified to the following standards:

- CE & UKCA
 - EMC, RF-EMC, RF, Safety
- FCC & IC
 - RF, EMC
- MIC
- RCM
- ANATEL
- SUBTEL
- WPC
- IFTEL
- NOM
- IMDA
- NCC
- RoHS 2.0

General Information

- HGD4
 - Dimensions: 142 x 50 x 24.5 mm
 - Weight: 160g
- HGP4
 - Dimensions: 150 x 150 x 26 mm
 - Weight: 265g
- HGC4

- Dimensions: 142 x 57 x 36 mm
- Weight: 325g
- The unit is provided to the end user as a sealed device, there are no user serviceable parts inside and users should not attempt to open the device
- The unit can be cleaned with a damp cloth and mild detergent, please contact us for more information about using alternative cleaning products / chemicals / techniques
- Protection provided by the equipment may be impaired if used in a manner not specified by System Loco

Regulatory Information

FCC Rules and Industry Canada (IC) regulatory information

Compliance Statement (Part 15.19)

The equipment 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.

Warning (Part 15.21)

Changes or modifications not expressly approved could void the user's authority to operate the equipment. Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Compliance Statement (Part 15.105(b))

Note: 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 or more of the following measures:

Reorient or relocate the receiving antenna

Increase the separation between the equipment and receiver

Consult the dealer or an experienced radio/TB technician for help.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following 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 CNF 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.

Class B digital device notice

“CAN ICES-3 (B)/NMB-3(B)”

RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for mobile transmitting devices operation in an uncontrolled environment. End users must follow the specific operating instructions to satisfy RF exposure compliance. The equipment should only be used where there is normally at least 20cm separation between the antenna and all person/user.

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

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

Mexico

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”



Recently viewed articles

[LocoTrack Primary - Manual do usuário \(Português\)](#)

[LocoTrack Rechargeable - Manual do usuário \(Português\)](#)

[LocoTrack Rechargeable User Manual](#)

[LocoTrack Primary - Manual de Usuario \(Español\)](#)

[Track App](#)

Related articles

[LocoTrack Rechargeable User Manual](#)

[LocoTag - User Manual \(English\)](#)

[What are the tag detection settings / options?](#)

[HGA4 Installation Guide](#)

[Data - Device Information](#)

System Loco