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LocoTrack Rechargeable User Manual

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Overview

System Loco Ltd's 'LocoTrack Rechargeable' is designed for detecting the presence of LocoTags

over long periods of time.

There are two power supply variants:

- HFR4 - a device that can be easily attached to a wall or flat surface and be charged from a 5V standard mains powered PSU
 - NOTE the PSU is not supplied as part of the product
- HGR4 - a portable device that can be placed on or inside a package and is charged using a standard wireless Qi charger
 - NOTE the Qi charger is not supplied as part of the product

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

Key Features

- Easy to install, and pre-configured for use
- Provides 40 days of battery life at 15 minute reporting intervals
- Works indoors & outdoors
- Mains 5V or Qi wireless charging
- Loco - localisation/reporting engine, enabling unit to be configured & controlled remotely
- Environmental sensors for temperature, light, movement, tip, impact & shock monitoring
- Secure, authenticated communications: LTE Cat-M1, 2G, WiFi
- Secure BLE Gateway to communicate with LocoTags

Activation

Configure the device behaviour using the locoaware.com portal.

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

Operation

The LocoTrack Rechargeable was designed for simple operation.

There is only one button for the LocoTrack Rechargeable. The button will force the unit to report. Once the button is pressed it will do a full report with GPS. The LED will indicate the device's progress. Please see [LED patterns](#) in the System Loco Knowledge Base for more details.

With the device 'on,' it is ready to be used for its normal operation.

The LocoTrack Rechargeable 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

- -10 degrees C to 50 degrees C

- Charging of the battery is permitted between 0 degrees and 40 degrees, outside of this range, the device will not charge so as to protect the battery
- IP67

Electrical Ratings & Charging

The device is rated 5Vdc, 0.75A

Power can be delivered either by external cable or Qi charger.

Only suitably rated & certified power supplies should be used, as per the guidance/legislation in the country of use:

- For the HGR4, a 5W 1A Qi charger from a reputable supplier should be used
- For the HFR4, a 5V PSU from a reputable supplier with a standard 2.1 mm Barrel Jack (2.1x5.5) should be used. A cable length of up to 3m can be used.

In both cases, the supply should be fused appropriately with suitable overcurrent protection when charging.

If in doubt about the method of charging, please contact us via systemloco.com

Batteries

The unit contains a 4000mAh rechargeable battery

- Do not expose to temperatures > 50°
- 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

- Dimensions: 166 x 82 x 30.5 mm
- Weight: 250g
- The unit is provided to the end user as a sealed device, there are no user serviceable parts inside
- 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

Human Exposure Compliance Statement

Pursuant to 47 CFR § 24.52 of the FCC Rules and Regulations, personal communications services (PCS) equipment is subject to the radio frequency radiation exposure requirements specified in § 1.1307(b), § 2.1091 and § 2.1093, as appropriate.

System Loco certifies that it has determined that the LocoTrack Rechargeable complies with the RF

hazard requirements applicable to the broadband PCS equipment operating under the authority of 47 CFR Part 24, Subpart E of the FCC Rules and Regulations. This determination is dependent upon installation, operation and use of the equipment in accordance with all instructions provided.

The LocoTrack Rechargeable is designed for and intended to be used in fixed and mobile applications.

“Fixed” means that the device is physically secured at one location and is not able to be easily moved to another location. “Mobile” means that the device is designed to be used in other than fixed locations and generally in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter’s antenna and the body of the user or nearby persons. The LocoTrack Rechargeable is not designed for or intended for use in applications within 20 cm of the body of the user and such uses are strictly prohibited.

To ensure that the LocoTrack Rechargeable complies with current FCC regulations limiting both maximum RF output power and human exposure to radio frequency radiation, a separation distance of at least 20 cm must be maintained between the unit’s antenna and the body of the user and any nearby persons at all times and in all applications and uses.

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 fourth 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

IFETEL RTICASC17-1153

“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.”



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