LocoTrack Primary HGP4



Overview

The LocoTrack Primary HGP4 is a long life, non-rechargeable, battery-operated device designed for long term asset tracking – it's rugged and can operate indoors and outdoors. The LocoTrack HGP4 will periodically report its location, upload sensor logs, and receive any changes to its configuration settings. This cycle is continuous unless events occur such as changes in environment or movement. Upon an event, the device will send an additional report regarding its condition. All thresholds on sensors can be configured.

In addition to providing standalone protection, the LocoTrack HGP4 is interoperable with other System Loco products. As such, it can read data from LocoTags, and act as a gateway to communicate tag data.

Applications

The LocoTrack HGP4 is designed to be attached to medium to large assets whose location must be tracked over extended periods of time – such as containers, machinery and equipment that should not leave a site. With a low reporting rate, it can provide long-term data and raise alerts when unexpected movements or changes in environment occur.

Product Highlights

- Battery life up to five years with no recharging
- Wi-Fi, LTE Cat M1 & GSM communications
- Waterproof and ruggedized (IP67)
- Remotely configurable
- Environmental sensing (temperature)
- Movement / shock detection
- Secure gateway to communicate with LocoTags
- Can beacon as a LocoTag
- Certified for use globally

Remote Communication

Worldwide LTE Cat M1 (1, 2, 3, 4, 5, 8, 20, 28)
EGPRS (850, 900, 1800, 1900MHz)
Wi-Fi 802.11b/g/n via Espressif ESP8266
Secure encrypted proprietary BLE-based wireless protocol (2.4GHz)*

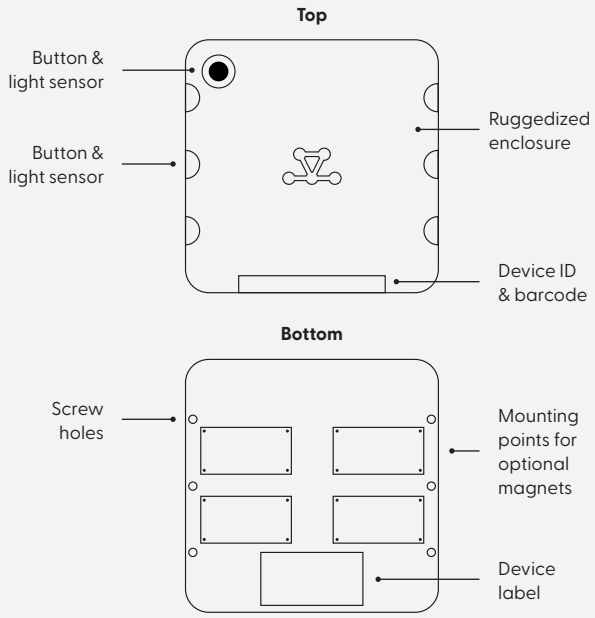
Positioning

Loco Hybrid Positioning Engine, with locations from A-GPS, visible cell towers and Wi-Fi access points

Battery Life

6V Li-FeS_2 battery (8 x FR6 / AA cells) providing up to 5 years of continuous operation when using the following configuration:

24 hr reporting interval when stationary | additional reports on movement (1 trip per week)



Power Consumption

Sleep
0.003 mA (average)

Reporting
125 mA (average)

Mechanical Characteristics

Dimensions (LxWxH)
150 x 150 x 26 mm (5.9 x 5.9 x 1.02 in)

Weight
452 g (15.9 oz)

Material
PC+ABS

Color
Black

Environmental

IP rating
IP67

Storage temperature
5 to 30°C (41 to 86°F)

Operating temperature
-20 to 54°C (-4 to 129.2°F)

Sensors

Temperature
<1°C (2°F) accuracy from -20 to 54°C (-4 to 129.2°F)
NIST traceable

Accelerometer
Orientation detection
Motion detection
Impact detection
Tip detection

Air pressure
Flight mode

Light
Package open/close

Reporting

Tag detection range
Up to 20 m (65 ft) indoors
Up to 80 m (260 ft) outdoors

Number of tags
Up to 1,000 tags per device

Reporting frequency
Configurable

Compatibility

LocoTrack devices
LTP-HGD4 | LTP-HGD4-SC | LTP-HGP4 | LTP-HGC4 | LTR-HGR4 | LTR-HFR4 | LT-Z1U

LocoTags
LocoCard E1BL | LocoTag E4BL | LocoTag E4B | LocoTag P4B | LocoTag E4P | LocoTag P4P | LocoTag T1B | LocoTag C2PL

Certifications
System Loco devices are certified for use in a wide range of countries and on most major airlines

*Uses a proprietary low-energy protocol over Bluetooth radio technology. Not intended for interoperability with standard Bluetooth devices.