LocoTrack Primary HGD4



Overview

The LocoTrack Primary HGD4 is a non-rechargeable battery-operated device designed for supply chain asset tracking – On the Road, Rail, Air, or Ocean – as well as various under roof applications.

Applications

Ideal for tracking high-value and cold chain shipments across all modalities globally, the device supports multi-modal shipments and is particularly suited for journeys where reverse logistics are challenging or impractical. It ensures reliable location and sensor monitoring across diverse supply chain needs.

Product Highlights

- Supports multi-modal supply chain journey
- Incentivized recycling scheme
- Provides up to 60 days of in-transit tracking
- NIST traceable temperature sensor
- Wi-Fi, LTE Cat M1, and GSM communications
- Detects LocoTags
- Waterproof (IP67)
- Damage detection
- Certified for use globally and on major airlines
- Certified for use within cold chain

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

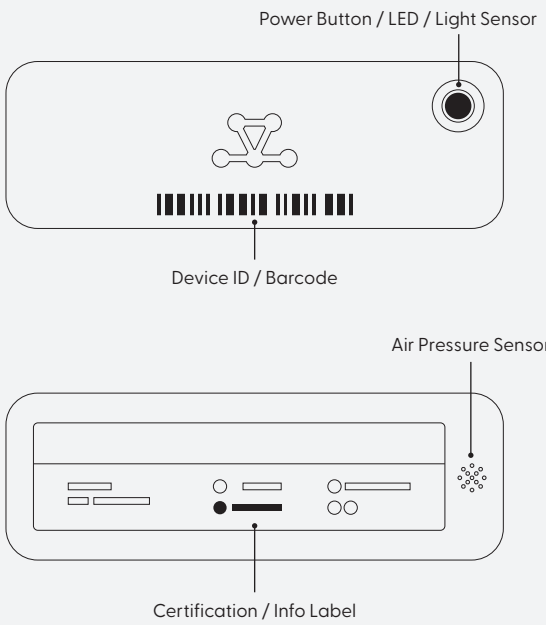
6V alkaline battery (4 x LR6 / AA cells) providing 60 days of continuous operation when using the following configuration:

1 hr reporting interval when stationary | 15 min when in motion (8 hr motion per day)
5 min temperature logging | 10 sec temperature monitoring

Power Consumption

Sleep
0.015 mA (average)

Reporting
125 mA (average)



Mechanical Characteristics

Dimensions (LxWxH)
141.2 x 49.2 x 24.1 mm
(5.5 x 1.9 x 0.95 in)

Weight
160 g (5.6 oz)

Material
PC+ABS

Color
Light gray

Environmental

IP rating
IP67

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

Operating temperature
-20 to 54°C (-4 to 129°F)

Sensors

Temperature
+/- 0.5°C (1°F) accuracy from
-20 to 54°C (-4 to 129°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.