



LocoTrack Primary HGP4.



Product Highlights.

- Battery life up to five years with no recharging
- WiFi, LTE-CatM & GSM comms
- Waterproof and ruggedised
- Remotely configurable
- Environmental sensing (temperature)
- Movement / shock detection
- Secure BLE Gateway to communicate with LocoTags
- Can beacon as a LocoTag
- Certified for use in over 10 countries

How the system works.

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 Primary 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 Primary HGP4 is interoperable with other Loco products. As such, the LocoTrack Primary HGP4 can read data from LocoTags, and act as a gateway to communicate tag data.

Setup and asset association.

The LocoTrack Primary HGP4 is pre-configured with default settings. All that is needed is to turn on the device and associate the device with the asset or shipment to which it is attached. To simplify this association process, each LocoTrack Primary HGP4 has a unique identifier that is presented as a number and a barcode on its label. Association is completed by scanning this barcode and entering details regarding the asset. This can be completed directly on LocoAware or your system (API integration required). Once associated, LocoAware allows the user to search for a specific asset.

Design considerations.

The system has been developed with end-to-end security in mind and protection against replay and masquerade attacks. Each LocoTrack Primary HGP4 has a unique key programmed at manufacture and all communication is authenticated and restricted to Loco servers. Communication can be completed over cellular or via pre-configured WiFi access points.

The LocoTrack Primary HGP4 has been built with an extended life in mind with both additional battery life and ruggedised casing. It can be attached to large assets and will withstand all weather conditions.

Applications include.

Designed to be attached to medium to large assets where location must be tracked over extended periods of time (i.e. 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.



Technical Specifications.

Remote Communication

Worldwide LTE Cat M1 (1, 2, 3, 4, 5, 8, 20, 28)/EGPRS (850, 900, 1800, 1900MHz), WiFi 802.11b/g/n via Espressif ESP8266

Positioning

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

Power Consumption

Sleep 0.003mA (average)

Reporting 125mA (average)

Battery Life

Up to 5 years of battery life with reporting at 24hr (stationary); with additional trip reports on movement starts and stops (Considering 1 movement trip per week)

Mechanical Characteristics

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

Weight 241g (8.5oz)

Material PC+ABS

Colour Black

Environmental

IP rating 67 (Pending)

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

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

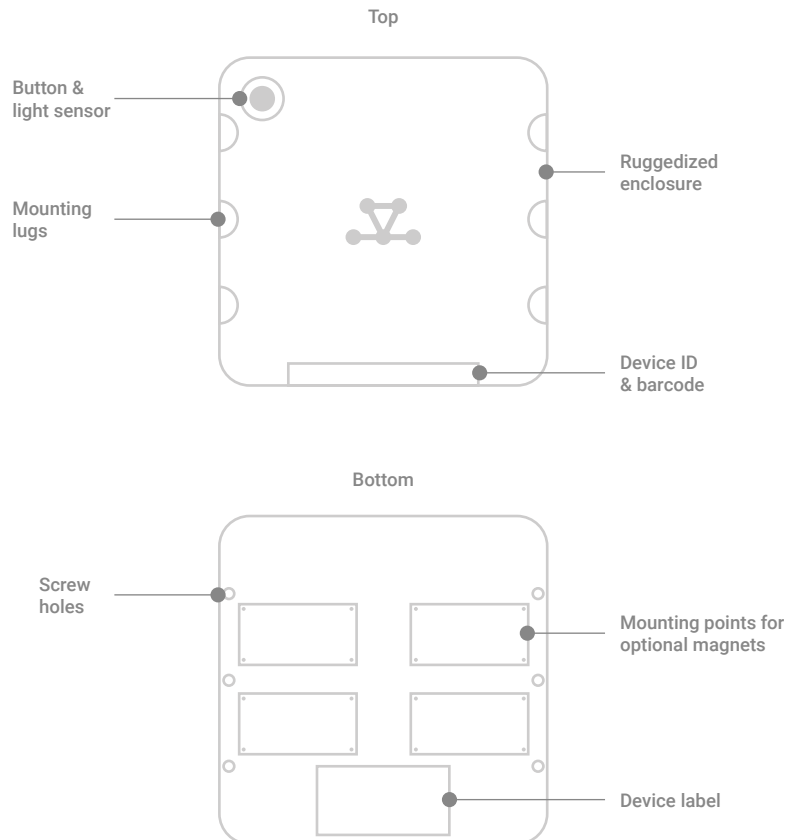
Sensors

Temperature <1°C (2°F) accuracy between -10 to 54°C (14 to 129.2°F)
NIST traceable

Accelerometer Motion detection

Pressure sensor Air pressure

Light sensor Package open/close



Works with

LocoTrack Devices LTP-HGD4, LTR-HGR4, LTR-HFR4, LTP-HGP4, LTP-HGC4, LT-Z1U

LocoTag Devices LTAG-E4BL, LTAG-E4B, LTAG-P4B, LTAG-E4P, LTAG-P4P, LTAG-T1B, LTAG-C2PL

Certifications

Countries FCC, IC, MIC, NOM, ANATEL, UKCA, CE, ROHS, RCM, RAMATEL

Airlines 5C