

LocoTag E4BL.



Product Highlights.

- Small, covert and easy to install
- Long battery life of up to 9 months
- Temperature and humidity logging
- Logs every 15 minutes
- Up to 80m (262.5ft) range
- Uses proprietary protocol over 2.4GHz
- Certified for use in over 20 countries and 40 airlines

How the system works.

The LocoTag E4BL has been developed to work alongside System Loco tracking and monitoring devices. The LocoTag E4BL can report presence/absence as well as the data for alert notifications (temperature/humidity) to LocoAware via System Loco devices. The LocoTag E4BL checks and stores temperature and humidity every 15 minutes to local memory.

The LocoTag E4BL is compatible with all LocoTrack hubs and is designed for multiple use cases, for example; during transit it can report logs via a HGR4 or a HGD4 device and it can report inbound or outbound from facilities utilizing externally powered HFR4 Gateways.

LocoAware enables you to view the logged data and locations where the LocoTags have been observed by LocoTrack devices.

The same controls are accessible to 3rd party applications via JSON API to the Loco Server.

Installation and asset association.

Installation is simple. The LocoTag E4BL has a 3M adhesive backing which provides a strong attachment to plastic and metal surfaces.

Each LocoTag E4BL 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. Once associated, LocoAware allows the user to search for a type of asset, or for a specific asset.

Design considerations.

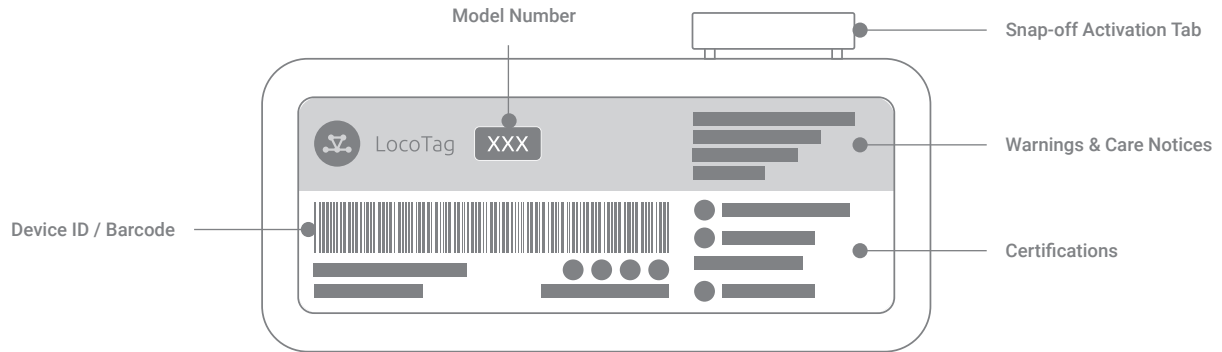
The system has been developed with end-to-end security in mind and protection against replay and masquerade attacks are provided as standard. Each LocoTag E4BL has a unique key programmed at manufacture and all communication is authenticated.

Applications include.

Our LocoTag E4BL provides reliable, detailed and complete temperature and humidity traces for goods across multiple industries such as refrigerated cold chain and dry goods movement.

When used as part of a high value supply chain solution, individual goods can be tracked during both transit and delivery, ensuring no individual item is lost.

Technical Specifications.



Communication

BLE 4 & 5 discoverable authenticated proprietary protocol over 2.4GHz

Sensing Capabilities

Sensing capabilities include:

Temperature	<1°C (2°F) accuracy NIST traceable
Humidity	sub 2% RH accuracy

LocoTag Reporting

Range	20m (65.6ft) indoors 80m (262.5ft) outdoors
Number of tags	Up to 1,000 tags per LocoTrack device
Reporting interval	4.8 seconds (approx.)
Logging frequency	15 minutes
Log buffer	30 days

Power Consumption

Sleep	0.004mA (average)
Reporting	12mA (average)
Report duration	3ms

Battery

320mAh primary battery (2xCR2025, total 0.1g lithium), providing 9 months of continuous operation, with up to 30 days of temperature/humidity logs at 15-minute intervals

Mechanical Charecteristics

Dimensions (LxWxH)	75 x 34 x 4mm (2.95 x 1.34 x 0.16in)
Weight	15g (0.5oz)
Material	PC+ABS (recyclable casing)
Colour	Black

Environmental

IP rating	54
Storage temperature	-30 to 60°C (-22 to 140°F)
Operating temperature	-25 to 60°C (-13 to 140°F)

Works with

LocoTrack Devices	LTP-HGD4, LTR-HGR4, LTR-HFR4, LTP-HGP4, LTP-HGC4
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Certifications

Countries	FCC, IC, CE, UKCA, ROHS, PTCRB, MIC, KC, NCC, ANATEL, NOM, IFETEL, SUBTEL, OFCA, NBTC, WPC, RCM, RAMATEL
Airlines	RU, AC, CA, AF, NZ, AS, NH, AA, M6, OZ, 50, 5Y, OS, AV, SN, CV, C8, CX, CI, DL, EK, EY, HX, QX, KL, KE, LA, M3, LK, MH, KZ, PT, OO, WN, LX, TP, TK, UA

Part Number

E4BL