LocoTag E4B.

Product Highlights.

→ Small, covert and easy to install

→ Long battery life up to 2 years

→ Up to 80m (250ft) range

→ IP54 splashproof

→ Communicates every 10 seconds

→ Environmental sensing (temperature & humidity)

→ Sensing functionality (Flight mode)

→ Uses encrypted proprietary BLE protocol over 2.4GHz

→ Certified for use in over 16 countries

Installation and asset association.

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

Each LocoTag 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.

How the system works.

The LocoTag E4B has been developed to work alongside System Loco tracking and monitoring devices. The LocoTag E4B can report presence/absence as well as the data for alert notifications (temperature/humidity) to LocoAware via System Loco devices.

LocoAware enables you to view the reported 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.

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 E4B has a unique key programmed at manufacture and all communication is authenticated.
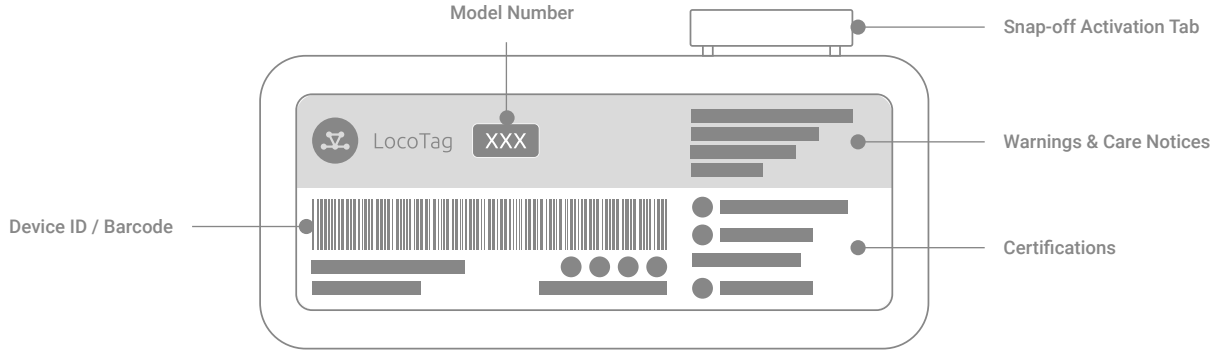
Applications include.

Our LocoTag E4B 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.

Model Number

Snap-off Activation Tab

LocoTag XXX

Warnings & Care Notices

Device ID / Barcode

Certifications

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.)

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

Certifications

Countries	FCC, UKCA, RCM, ANATEL, IC/ISEDC, SUBTEL, CRC, SUTEL, CE, RoHS, WEEE, OFCA, WPC, MoC, Giteki, NOM/NYCE/IFETEL, IMDA, KC, NCC

Part Number

E4B