

GO Nano BLE

*Cargo monitoring solutions
User manual*



Table of contents

Introduction	3
Understanding the GO Nano BLE	3
Performance fators	4
Activation instructions	4
Mounting and placement instructions	5
Regulation statements	6
Technical specifications	8

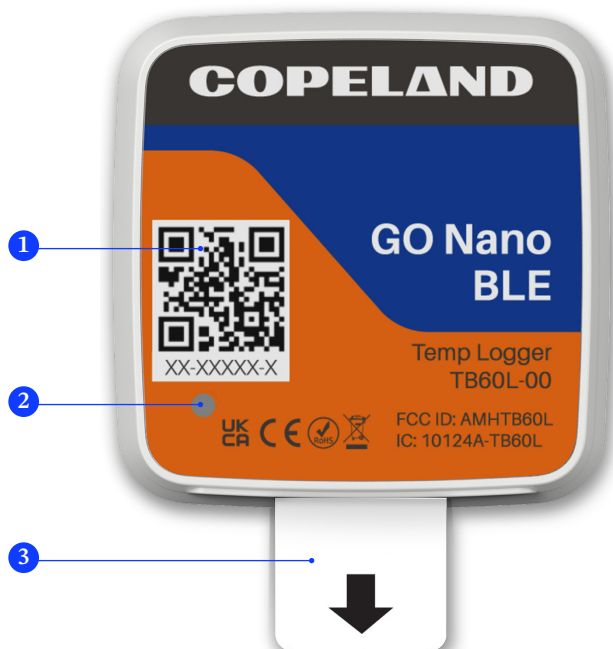
Introduction

The GO Nano BLE temperature logger is designed to capture temperature and can be placed at various places within a shipment. For example, it can be placed on the side of individual boxes or pallets. In some cases, the device can be placed inside of a box to measure temperatures inside. Data can be extracted from the device using the Copeland Mobile APP or by the device being within proximity of a GO Nano Gateway.

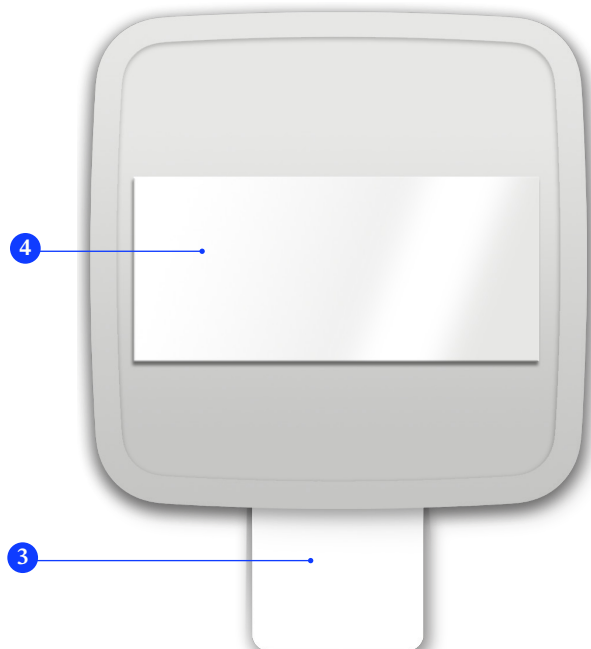
Understanding the Devices

1. QR code
2. LED indicator
3. Activation pull tab
4. Adhesive backing

GO Nano BLE device front



GO Nano BLE device back



Performance factors

The performance of the BLE radio and successful transmission of data stored on the device depends on several factors:

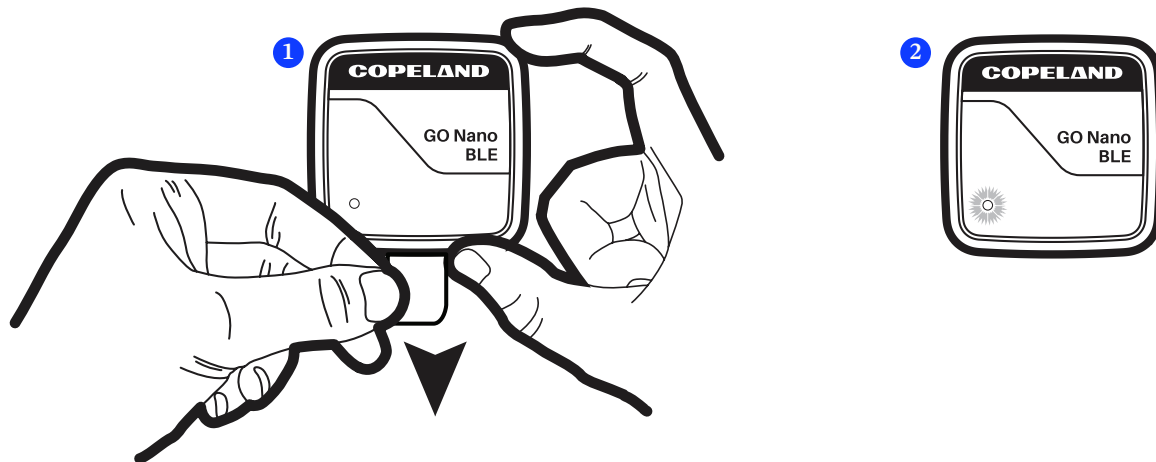
1. Proper placement of device
2. Proper positioning and placement of GO Nano Gateways (if used)
3. Proper distance to device from GO Nano Gateway or Mobile APP.
4. Other environmental or radio interference.

In the event of a failed transmission or connection between device and readers, the system will continue to attempt to download data until successful.

Activation instructions

To activate the GO Nano BLE, please follow these instructions.

1. Remove the "Pull-tab" by pulling down on the white plastic in the direction of the arrow.
2. The LED light will blink to indicate successful activation.

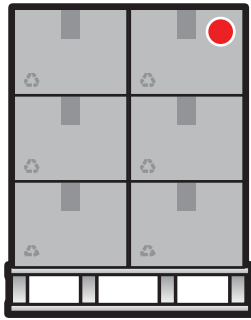


Mounting and placement instructions

1. Remove the protective slip over the adhesive tape.
2. With the exposed sticky side, mount the device in desired location.

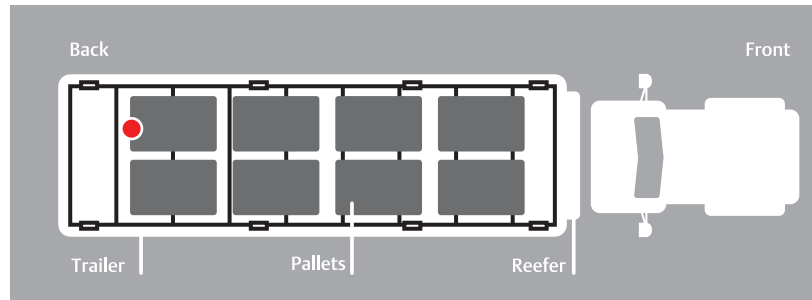
If placing GO Nano BLE loggers on multiple pallets in a single shipment, please refer to the following mounting areas for greatest success of download at destination.

Placement on individual pallet

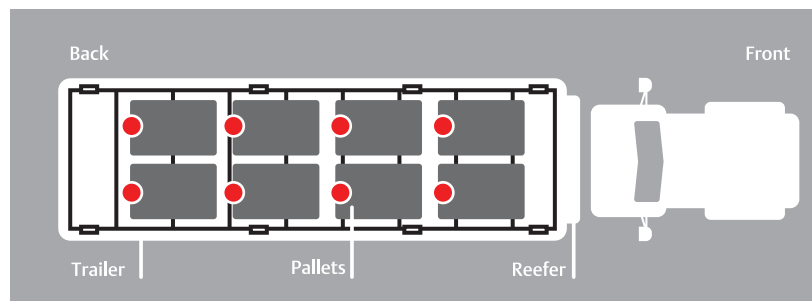


Front

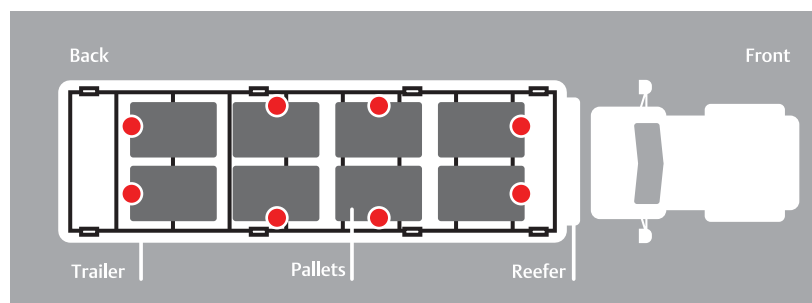
Individual pallet within trailer



Multiple pallets within trailer, option one



Multiple pallets within trailer, option two



Regulation statements

FCC regulations

This Device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Note: Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm during normal operation.

ISED notice

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

ISED RF exposure statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la CNR-102 définies pour un environnement non contrôlé. Afin d'éviter la possibilité de dépasser les limites d'exposition aux fréquences radio de la CNR-102, la proximité humaine à l'antenne ne doit pas être inférieure à 20 cm (8 pouces) pendant le fonctionnement normal.

CE statement

Hereby, Copeland LP. declares that the radio equipment GO Nano Gateway is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://ec.europa.eu/docsroom/documents/9781/attachments/1/translations>

UKCA statement

Hereby, Copeland LP. declares that the radio equipment type GO Nano Gateway is in compliance with RER 2017 (SI 2017/1206).

The full text of the UK declaration of conformity is available at the following internet address: <https://www.gov.uk/guidance/ukca-marking-conformity-assessment-and-documentation>

Body distance warning

The device could be used with a separation distance of 20cm to the human body.

Product support for BLE frequency and max power

As stated in the RF report Max EIRP power, please refer to the addition.

Operating Mode	Operating Frequency Range		Maximum Transmit Power (EIRP) dBm
	TX(MHz)	RX(MHz)	
Bluetooth LE	2400 – 2483.5		9.74

Technical specifications

Battery	3V LiON (coin cell)
Bluetooth protocol	BLE 4, BLE 5
Temperature sampling	5-minutes
Advertising rate	1-second
Operating range	-30C to +60C (-4F to 140F) RH 0-99% (condensing)
Days in-use	60-days
Environmental rating	IP64
Mounting options	Double Adhesive tape and / or shipping sheet
Dimensions	50x50x10mm (1.9x1.9x0.39inches)
Weight	24g (0.8oz)
Optimal storage conditions	Temperature: 5°C to 30°C. (41°F to 86° F) Humidity: < 70%
Certifications	 FCC ID: AMHTB60L, IC: 1024A-TB60L Z.I. Via dell'Industria, 27 32016 Alpago (BL) ITALY