

Data Sheet

Version 202509

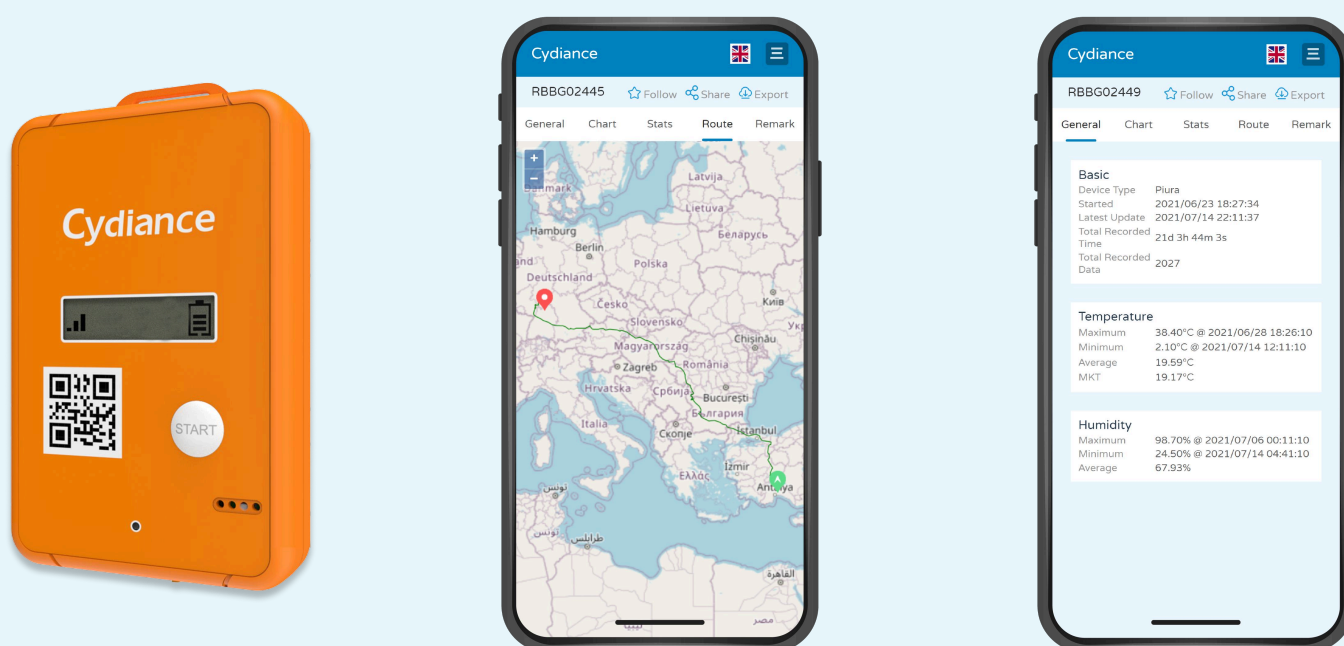
Cydiance

Model: R3

4G Tracker for Temperature + Humidity + Light

Cydiance R3, the newly upgraded 4G tracker featuring temperature and humidity sensors, along with a light sensor. This state-of-the-art device seamlessly operates on a global scale, leveraging the power of the global 4G network to transmit collected data at regular intervals.

With the user-friendly Cydiance App, you have complete and clean vision over the device's data. Effortlessly monitor the location of your valuable assets and access detailed temperature history reports.



Features

- Automatic Data Upload: Data is seamlessly uploaded through the global mobile network, providing effortless data synchronization.
- Compliance Certification: Certified to comply with IATA regulations and International Maritime Dangerous Goods Regulation, ensuring adherence to industry standards and regulations.
- Calibration is traceable to NIST, ensuring reliable and traceable measurements.
- Emergency Wake-up: The device's light sensor is activated by door open events, immediately capturing and uploading the event, enhancing security and monitoring capabilities.
- Cydiance App: presents data with insightful charts and summaries, including MAX, MIN, AVG, and MKT values. It allows easy data exporting and sharing for comprehensive analysis and collaboration.
- Shipment Management: empowers users to input shipment information directly into the device and platform, streamlining logistics and ensuring customized record-keeping.

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General

Model/Name	R3
Status Indicator	LCD, QR code Scan
Operating Temperature	-20°C~+60°C
Waterproof Grade	IP54
Dimensions/Weight	114mm × 69mm × 22.3mm/approx 145gram
Shelf Life/Battery	12 months/Ni-MH 2500mAh(airlines exempt)

Communication

Connection Interface	4G(fallback to 2G), USB
Network Communication	LTE-FDD B1/2/3/4/5/8/20 LTE-TDD B38/40 GSM B2/3/5/8

Sensors

Temperature/Humidity Sensor	Temperature Measurement Accuracy: ±0.5°C,- 40°C~+55°C Humidity Measurement Accuracy: ±2%RH@-40°C~+55°C
Temperature Responsiveness	Tested to comply with U.S. Pharmacopeia (USP1118) and EN 12830 standards
Calibration Standard	National Institute of Standards and Technology (NIST)
Light Sensor	1~ 100lux
Motion Sensor	Gravity Measurement Range: ±2g/±4g/±8g/±16g ODR Bandwidths: 1Hz~ 400Hz
Location Service	Triangulation algorithm based on telecom base station

Data and Report

Recording/Uploading Interval	Typical configuration 15mins/30mins/60mins
Recording Duration	From 5days to 60days(varies due to interval setting and environment temperature)
Data Encryption	TEA,AES or RSA*(optional)
Report Interface	Online Data can be viewed, exported and shared via Cydiance App;
Time Zone	Automatically adjusted to data reader's phone/computer setting

Certification

Certification	CE, FCC-ID, FCC-sDOC, RoHs (in certification process)
Regulation Compliance	IATA 2021 Dangerous Goods Regulations 62nd editions, UN3481, Packing Instruction 970 section II; Comply with the International Maritime Dangerous Goods Regulation 2018, packing instruction P903; Comply with EN12830:2018

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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 and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: This equipment 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 radiate 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body. Use only the supplied antenna.

Cydiance reserves the right, without prior notice, to update or alter any of the aforementioned parameters based on technical or market factors. Before placing an order, you may consult with our sales staff regarding any special details.