Cargo Monitoring Solutions

Product Catalogue

EMERSON™

XpressPDF™ Logger
Temperature monitoring logger

Emerson Cargo Solutions

We help retailers, suppliers, growers, shippers, exporters and restaurants ensure only the freshest and safest foods reach consumers. Our core technologies - coupled with our cold chain expertise - provide complete temperature monitoring solutions for our customers. We place data at your fingertips to make food quality and safety decisions easier and faster. Product offerings include real-time, wireless systems, as well as single-use data loggers.
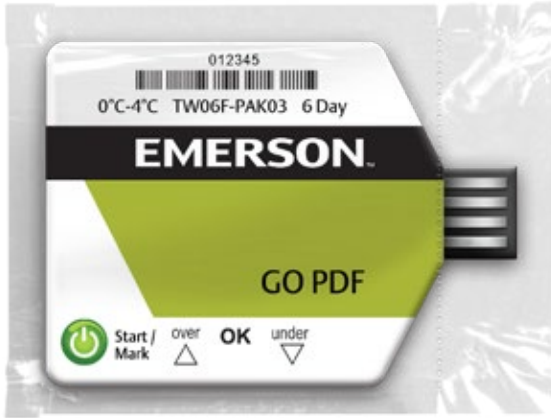
GO PDF Logger
Temperature monitoring logger

GO PDF Loggers are flat and feature an integrated USB connection point which can be plugged directly into the USB port of a computer. Once connected, the logger automatically generates a PDF file containing complete time and temperature history, including graphs and summary data.

XpressPDF Logger digitally monitors time and temperature of perishable products during distribution and storage. Loggers are flat and feature an integrated USB connection point which can be plugged directly into the USB port of a computer. Once connected, the logger automatically generates a PDF file containing complete time and temperature history, including graphs and summary data. XpressPDF Logger eliminates the need for reading devices and proprietary software and are optimal for applications requiring fully independent operation.

Technical Specifications

Alarm indicators:	LEDs indicate temp over/under/OK
Certifications:	FCC, FAA, IC, CE, RCM, RoHS, China RoHS, WEEE
Embedded CSV file:	Yes
Export to other applications:	Generates PDF on PC
In-use life:	Up to 90 days
IP Rating:	IP67
Life Sciences Validation:	No
Marking Capabilities:	Yes
NIST Traceable:	Yes
Operating Environment:	-25°C (-13°F) to 60°C (140°F)
Operating System:	Windows 8 and 10 with Adobe Reader™ version 9 or later
Recording interval:	Every 5 minutes
Shelf Life:	15 months
Size:	61mm x 85mm (2.4 in x 3.3 in)
Stop Button:	No
Temperature Accuracy:	-25°C to 60°C (-13°F to 140°F): ±0.5°C (0.9°F)
Time Zone:	UTC in label, reader converts to selected time zone
Weight:	14.2 g (0.5 oz)

Technical Specifications

Certification:	RCM, RoHS, China RoHS
Embedded CSV file:	Yes
Export to other applications:	Generates PDF with embedded CSV on PC
In-use life:	90 days, 110 days or 160 days
Memory:	25,920 data points
NIST Traceable:	Yes
Operating Environment:	-30°C to 70°C (-22°F to 158°F)
Operating System:	Windows 8 and 10 with Adobe Reader™ version 9 or later
Recording interval:	Every 5 minutes, 10 minutes or 15 minutes
Shelf Life:	15 months
Size:	58mm x 36mm x 5.4 mm (2.28 in x 1.42 in x .21 in)
Start delay:	30 minutes
Temperature Accuracy:	+/-0.5°C
Time Zone:	UTC
Waterproof Rating:	IP67
Weight:	12 g (0.4 oz)

GO NFC Logger
Time & temperature data through a mobile device

GO NFC Loggers monitor time and temperature of perishable products during distribution and storage. Loggers are flat and transfer data via short-range, near field communications (NFC) using phones and tablets. Logger data is immediately available via mobile application or using the GO NFC Pad Reader. In addition, GO NFC Loggers leverage the capabilities of Android and iOS phones and eliminate the need for proprietary readers. Data is easily sent to any email address via the mobile application.

Cloud-Based Access Customers who are interested in maintaining 24/7 historical records can subscribe to cloud upload capabilities where data can be accessed whenever needed.

Technical Specifications

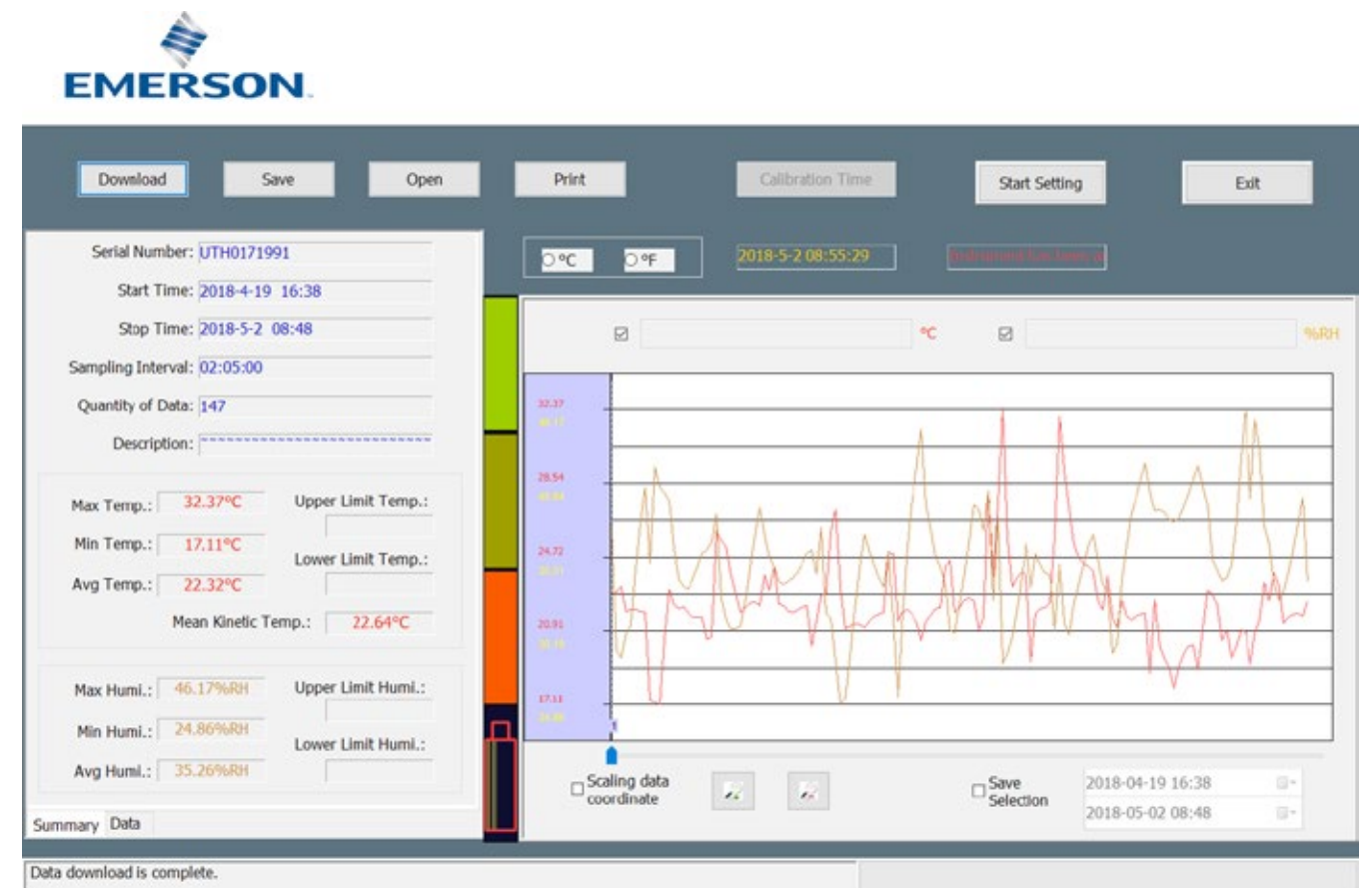|	
Alarm configurations:	Upper/lower/both/none, alerts may be consecutive (default) or cumulative
Alarm indicators:	LEDs indicate temp over/under/OK
Certifications:	FCC, IC, CE, RCM, Chile, Peru, RoHS, China RoHS, WEEE
Memory:	4K EEPROM, 1922 hard data points
NIST Traceable:	Yes
Operating environment:	-25°C to 60°C (-13°F to 140°F)
Read range:	Up to 5.08 cm (2 in)
Reading Redundancy:	GO NFC Pad Reader
Recycle options:	GO GreenSense™ Program
Recording interval:	Every 5 minutes
Shelf life:	15 months
Size:	61mm x 81mm (2.4 in x 3.4 in)
Start delay:	Standard 30 minutes, configurable 0 to 1275 minutes
Supported readers:	Android™ 4.1/ iPhone® 7 or newer with the NFC app, NFC-enabled tablets, NFC Pad Reader with software Mac and Windows compatible
Temperature accuracy:	-25°C to 60°C (-13°F to 140°F): ±0.5°C (0.9°F)
Temperature resolution:	0.1°C
Temperature sampling frequency:	1 minute
Temperature units:	°F and/or °C
Weight:	14.2 g (0.5 oz)

Scan the QR code and download the GO NFC Reader on your phone

GO TH Logger
Versatile temperature and humidity logger

Technical Specifications

Humidity resolution:	0.01%RH
Memory:	32,000 data points (16,000 RH%; 16,000 Temperature)
Operating humidity range:	0%RH to 100%RH; ± 3%RH Accuracy
Recording interval:	1 minute to 24 hours (programmable by user)
Shelf life:	Up to 15 months
Size:	8.6cm x 2.8 cm x1.2 cm (3.4 in x 1.1 in x 0.5 in)
Start delay:	User programmable
Temperature accuracy:	±0.5°C (±0.9°F), -10°C (14°F) to 80°C (176°F) ±1°C (±1.8°F), -40°C (-40°F) to -10°C (14°F)
Temperature range:	-40°C (-40°F) to 80°C (176°F)
Temperature resolution:	0.01°C (0.01°F)
Weight:	35g (1.25 oz)

Small and compact, these loggers record temperature and humidity levels during distribution and storage. The LED screen allows users to view the current time and most recent temperature and humidity readings. They are optimal for use in closed-loop situations and import/export container shipments.

Humidity and temperature data collected by the loggers can be downloaded and graphed. All data collected by the loggers can be saved electronically and is easily printed and shared.

AutoSense™ Inbound
A complete automatic wireless temperature monitoring system

GO Bluetooth Plus Logger
Time, temperature, humidity and probe read with a mobile device

Inbound monitoring is self-contained, utilizes cellular networks, and does not require IT departments to oversee installation or ongoing maintenance. GO Wireless Loggers arrive at the location and are automatically uploaded by the readers. Temperature data is sent via a cellular modem to a cloud repository where text email alerts are created and delivered to predefined individuals.
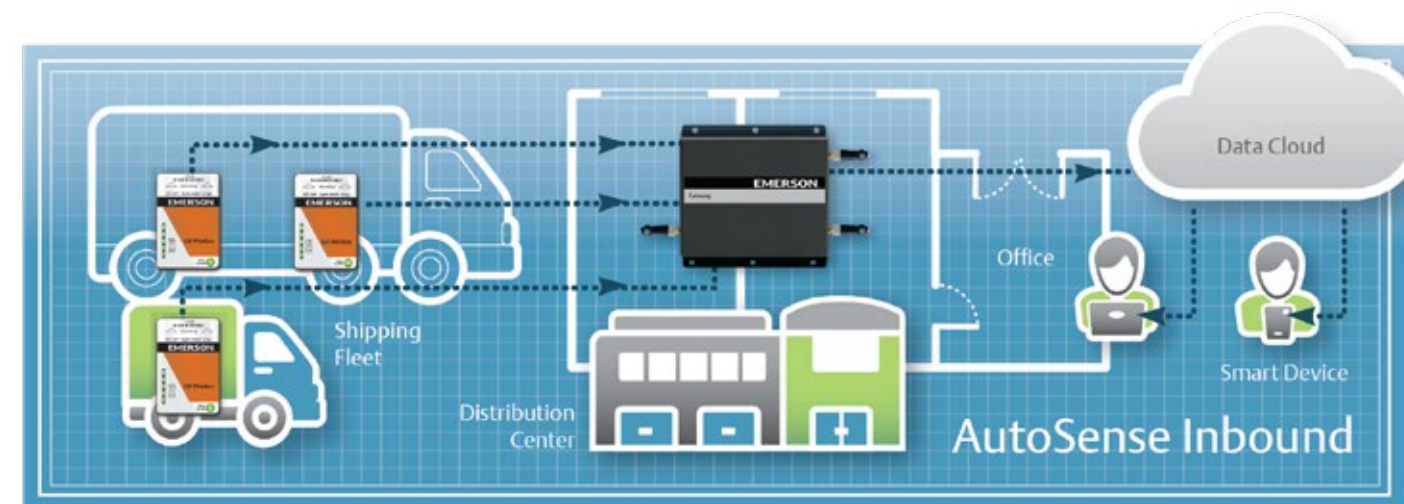
GO Bluetooth Loggers monitor time, temperature, humidity, and pulp temperature of perishable products in pre-cooling scenarios and during transit. Data is transferred wirelessly to most Bluetooth-enabled Android and iOS phones and tablets via the GO BT Reader mobile app. Data is received up to 30 meters away, eliminating the need for proprietary readers and software. For ease of use, the mobile application displays temperature and humidity data in a single graph.

The optional probe provides a wider temperature operating range and enables users to take both internal and external temperature readings. Loggers sample temperature every five minutes and both the temperature sensor and associated probe are NIST traceable.

Technical Specifications

GO Wireless Logger

Alarm configurations:	Upper/lower/both/none, alerts may be consecutive (default) or cumulative
Calibration:	Silicon based sensor is calibrated at the time of manufacture by Texas Instruments; NIST certificate of traceability available
Frequency:	US 915 MHz or EU 868 MHz
Housing:	NEMA 6P/IP67 dust and water resistant; FDA 21 CFR compliant food-grade packaging
In-use life:	Up to 60 days
Memory:	4K EEPROM, 1922 hard data points
Read range:	91 meters
Shelf life:	8 months (6, 15 day loggers)	6 months (30, 60 day loggers)
Size:	60 mm x 84 mm
Start delay:	Standard 30 minutes or configurable 0 to 1275 minutes
Temperature accuracy:	+/- 0.5 typical between -20°C to 60°C
Temperature resolution:	0.1°C
Temperature sampling frequency:	One minute with five minute intervals
Weight:	17 g (0.6 oz)

Reader Specifications

Certifications:	This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules
Connectivity:	Managed by Emerson
Frequency:	US 2.4 Ghz ISM WiFi frequency band
Indicators:	Seven 3-color LEDs showing system status and signal strength
Internet connectivity:	Can utilize existing 802.11 WiFi or hardwire Ethernet connection at customer request
Power consumption:	<15 Watts, 110VAC
Read range:	90 meters, extended via additional meshing readers
Installation & remote maintenance:	Performed by Emerson or authorized contractor

Technical Specifications

Device:

Alarm configurations:	Programmable via GO BT Reader mobile application
Calibration:	Silicon based sensor is calibrated at the time of manufacture by Texas Instruments
Certifications:	FCC, IC, CE, RCM, Ifetel, Anatel, SRRC, RoHs, WEEE, DID, BQB, Bluetooth 4.0
Export to Other Applications:	Generates PDF or CSV
Housing:	IP30
Humidity Accuracy:	At 25°C, between 20%RH and 80%RH: +/- 3RH units
Mobile Applications:	GO BT Reader (available from Google Play, Apple Store, Baidu Store, company web site or QR code on logger)
NIST Traceable:	Yes
Operating Range:	Unit Sensor: -30°C to 60°C (-4°F to 140°F)
Operating Relative Humidity:	0 to 100% RH
Read Range:	Up to 30 meters
Sampling Interval:	5 minutes
Shelf Life:	15 months
Size:	68mm x 39mm x 13mm
Supported Readers:	iOS 9 and above, Android 4.3 and above, BT4.0 and above
Temperature Accuracy:	+/-0.5°C (Maximum) From 0°C to +65°C +/-1.0°C (Maximum) From –40°C to +125°C (+/- 0.9°F (Maximum) from 32°F to 149°F +/-1.8°F (Maximum) from -40°F to 32°F and 149°F to 275°F)
Weight:	34 g (1.2 oz)

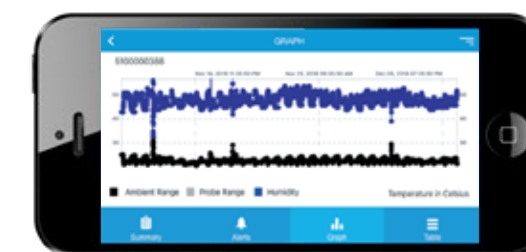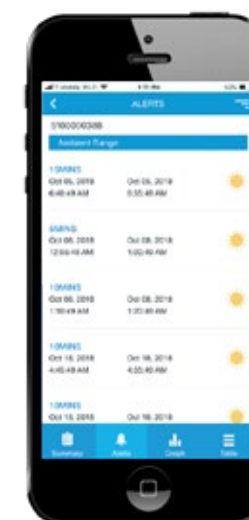### GO Bluetooth Probe:

Cable Length:	5 ft (1.5 m) 0.14 in (3.5mm) plug for electrical connection 0.8 ounces (22.7 g)
Diameter:	#PR1, 0.24 in (6mm) #PR3, 0.12 in (3mm)
Probe Length:	#PR1, 2.25 in (57mm) #PR3, 5.9 in (150mm)
Probe Sensor Operating Environment:	-58°F to 302°F (-50°C to 150°C)
Temperature Accuracy:	+/- 0.225°F typical at 77°F (+/- 0.125°C typical at 25°C) +/- 1.125°F max -58° F to 302°F (+/- 0.625°C max -50 to 150°C)

AutoSense Inbound

Scan the QR code and download the GO Bluetooth Plus Logger Reader on your phone

GO Real-Time Lux 2G/3G Tracker
Temperature, location and security with dual-mode 2G/3G coverage

GO Real-Time Lux 2G/3G Tracker detects unauthorized access to your high value assets during transit. Whether your cargo is at the border, a DOT checkpoint, or the receiver's dock, you know in real-time when and where your shipment is being accessed as well as the temperature of your product throughout the trip. And now, with our dual-mode 2G/3G cellular technology, connectivity and access to your data is further enhanced. Rest assured that visibility to temperature and location data will be available despite the ongoing transition in the cellular technology industry.

The GO Real-Time Lux 2G/3G Tracker provides global visibility at an affordable cost and fits in the palm of your hand. The tracker senses light when doors are opened and alerts you when your products are at risk on the road. Simply pull the tab to activate the device, place in a container or trailer and input the serial number into the Oversight dashboard or mobile app to access the shipment data in real-time.

Technical Specifications

Battery life:	Dual-mode up to 20 days (-20°C-70°C) Dual-mode up to 12 days (-30°C- -20°C)	**Size:**	78 mm x 52 mm x 20 mm
Cellular:	850/900/1800/1900 MHz Quadband GSM/ GPRS	**Temperature accuracy:**	+- 0.50°C (-20°C-100°C)
Certifications:	FCC, IC, PTCRB, CE, RCM	**Temperature range:**	-20°C to 70°C operating environment -45° C to +85° C storage
Humidity:	-20% to 90% operation, 10% to 95% storage	**Weight:**	68 g (2.4 oz)
IP Rating:	IP54		
Recycle options:	GO GreenSense™ program	**Oversight dashboard:**	Emerson.com/Oversight

GO Real-time XL 2G/3G Tracker
Temperature, location and security with dual-mode 2G/3G coverage

Extended battery life provides full coverage for your products on the road, in the port and out on the water. When your ship leaves port, the GO Real-Time XL 2G/3G Trackers keeps track of the temperature. Every time the ship nears port, the unit automatically connects and uploads data before the ship reaches the docks. And now, with our dual-mode 2G/3G cellular technology, connectivity and access to your data is further enhanced. Rest assured that visibility to temperature and location data will be available despite the ongoing transition in the cellular technology industry.

The GO Real-Time XL 2G/3G Tracker senses light when doors are opened and alerts you when your products are at risk on the road.

Technical Specifications

Battery life:	Dual-mode up to 75 days (-20°C- 70°C) Dual-mode up to 60 days (-30°C - -20°C)	**Size:**	77 mm x 52mm x 33mm (3.06 in x 2.06 in x 1.31 in)
Cellular:	850/900/1800/1900 MHz Quadband GSM/GPRS	**Temperature accuracy:**	+- 0.5°C(-20°C - 100°C)
Certifications:	FCC, IC, PTCRB, CE, Anatel	**Temperature range:**	-30°C to 70°C operating environment -45°C to +85°C storage
Humidity:	-70% RH to 90% RH operation, 10% RH to 95 RH storage	**Weight:**	136 g (4.8 oz)
IP Rating:	IP54		
Recycle options:	GO GreenSense™ Program	**Oversight dashboard:**	Emerson.com/Oversight

GO Real-Time 4G/Cat-M Tracker
Temperature, humidity, location and security using cellular M2M technology

The GO Real-Time 4G/Cat-M trackers provide temperature and location alerts as your shipment moves through the supply chain. Using 4G/Cat-M cellular technology, connectivity and access to your data is further enhanced. Rest assured that visibility to temperature, humidity, and location data will be available despite the ongoing transition in the cellular technology industry.

Comprehensive and automated reporting is provided through the Oversight Dashboard and the Oversight Mobile app. Data is encrypted, providing security as it moves to the cloud. Information is at your fingertips while you are on the go with Oversight Mobile. Check status and create shipments direct from a phone or tablet. View current maps, graphs, and charts of key shipments including temperature, humidity, security, and location details. Shipment summary reports include additional details such as device serial number, trip name and duration, mean kinetic temperature, and time above or below range. The Oversight Mobile app is available in English, Chinese, Spanish, Korean, Russian, Italian, German, Portuguese, Turkish and French.

Technical Specifications

Battery life:	Tri-mode with up to 20 days operation, 6-minute measurements reported at 18-minute intervals	**Size:**	3.0 in x 2.0 in x 0.75 in (76 mm x 51 mm x 19 mm)
Cellular:	CAT M1/NB1: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/B20/B26/B28 EGPRS: 850/900/1800/1900MHz	**Temperature range:**	-22°F to 158°F (-30°C to 70°C) operating environment -49°F to +185°F (-45°C to 85°C) storage
Certifications:	FCC, IC, PTCRB, CE	**Weight:**	0.15 lbs (68 g)
Humidity:	20% to 95% operation typical	**Oversight dashboard:**	Emerson.com/Oversight
Recycle Options:	GO GreenSense™ program		

GO Real-Time Reusable 2G/3G Tracker
Temperature, location and security dual-mode 2G/3G coverage

GO Real-Time Reusable is a temperature monitoring solution that does not require fixed installation or hardware maintenance, with continuous coverage for your products over the road. The reusable solution is designed for customers who would like to reuse a tracker on multiple shipments. The GO Real-Time Reusable senses light, alerts you when your products are at risk on the road and records when doors are opened.

Technical Specifications

Battery life:	Up to 60 days operation with 6-minute location and temperature measurements	**Recycle options:**	GO GreenSense™ Program
Battery:	5400 mAh battery size	**Size:**	77 mm x 52mm x 33mm (3.06 in x 2.06 in x 1.31 in)
Cellular:	850/900/1800/1900 MHz Quadband GSM/GPRS	**Temperature accuracy:**	+- 0.5°C (-20°C - 100°C)
Certifications:	FCC, IC, PTCRB, CE, Anatel	**Temperature range:**	-30°C to 70°C operating environment -45°C to +85°C storage
Humidity:	-20% to 90% operation, 10% to 95 storage	**Weight:**	136 g (4.8 oz)
IP Rating:	IP54	**Oversight dashboard:**	Emerson.com/Oversight

GO Real-Time CO₂ Tracker

CO₂, temperature, location and security

- Monitors temperature, location, light and CO_2 in a rechargeable and reusable format
- Ideal for tracking CO_2 product shipment levels in transit
- Access to real-time alert reporting with CO_2 sensor charts

Technical Specifications

Alerts:	Location, temperature, light, CO_2	**IP Rating:**	IP62
Battery life:	60+ days of operation with 60-minute location and temperature measurements	**LED:**	Blue for Power
		Memory:	2,000 measurement events
Battery:	Embedded 5400mAh polymer Li-ion battery	**Temperature accuracy:**	+- 0.50°C (-20°C - 100°C)
Cellular:	Phase I: 850/1900/900/1800 MHz GSM GPRS; Phase II: 800/850/900/1900/2100 UMTS HSPA 850/1900/900/1800 MHz GSM/GPRS/EDGE	**Temperature Range:**	-20°C to 70°C (-4°F to 158°F) operating environment -45°C to 85°C (-49°F to 185 °F) storage
Certifications:	FCC, IC, PTCRB, CE	**Size:**	88.9 mm x 63.5 mm x 69.85 mm (3.5 in x 2.5 in x 2.75 in)
Charging:	Via micro USB		
C02 Range:	0 - 60%	**Weight:**	295 g (10 oz)
Humidity:	10% - 95% storage	**Oversight Dashboard:**	Emerson.com/Oversight

GO Real-Time Flex Tracker

Location, temperature, humidity and probe

- Monitors location, temperature, humidity, light, features external probe
- Dual ambient and pulp temperature tracking
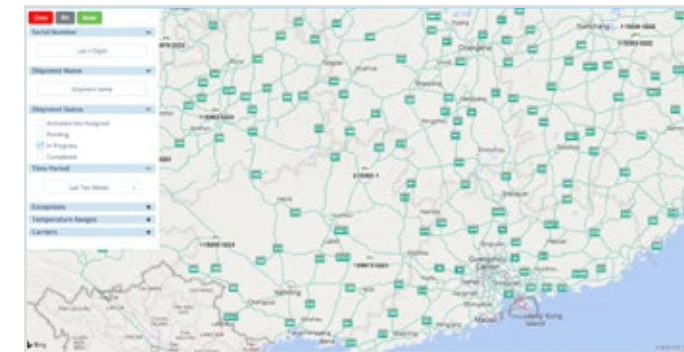- Real-time temperature alert reporting with humidity charts

Technical Specifications

Battery life:	60+ days of operation with 60-minute location and temperature measurements
Cellular:	850/900/1800/1900 MHz Quadband GSM / GPRS
Certifications:	FCC, IC, PTCRB, CE
Charging:	Performed via micro USB
Humidity (%RH):	0-100% operating range: accuracy +/- 2%
IP Rating:	IP62
LED:	Blue for Power
Memory:	2,000 measurement events
Temperature accuracy:	+- 0.5°C (-20°C - 100°C)
Temperature Range:	-20°C to 70°C (-4°F to 158°F) operating environment -45°C to 85°C (-49°F to 185 °F) storage
Sensors:	Light, Humidity, External Temperature Probe and Ambient Temperature
Size:	88.9 mm x 63.5 mm x 69.85 mm (3.5 in x 2.5 in x 2.75 in)
Weight:	295 g (10 oz)
Oversight Dashboard:	Emerson.com/Oversight

Probe:

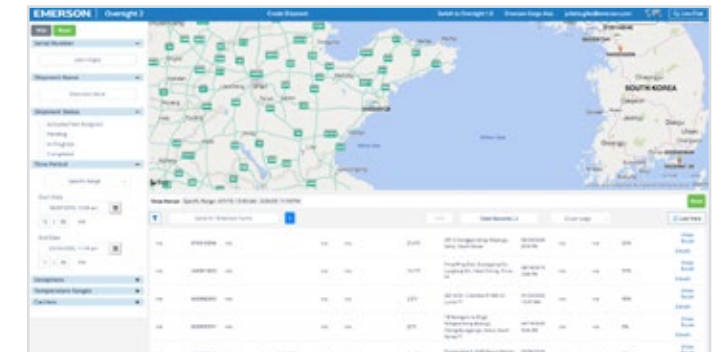|	
Cable Length:	5 ft (1.5 m) 0.14 in (3.5mm) plug for electrical connection 0.8 ounces (22.7 g)
Diameter:	#PR1, 0.24 in (6mm) #PR3, 0.12 in (3mm)
Probe Length:	#PR1, 2.25 in (57mm) #PR3, 5.9 in (150mm)
Probe Sensor Operating Environment:	-58°F to 302°F (-50°C to 150°C)
Temperature Accuracy:	+/- 0.225°F typical at 77°F (+/- 0.125°C typical at 25°C) +/- 1.125°F max -58°F to 302°F (+/- 0.625°C max -50°C to 150°C)

GO Real-Time Tracker Cloud Systems

Oversight dashboard

Comprehensive and automated reporting is provided through the Oversight dashboard. Visit Emerson.com/Oversight and enter the GO Real-Time Tracker serial number. Access real-time information about your shipment or login to your secure web portal and see all of your shipments at a glance.
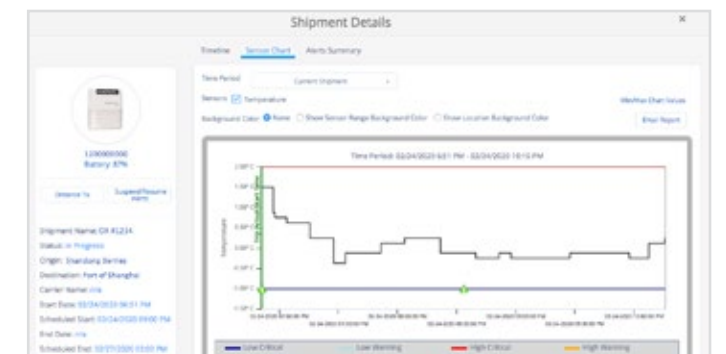

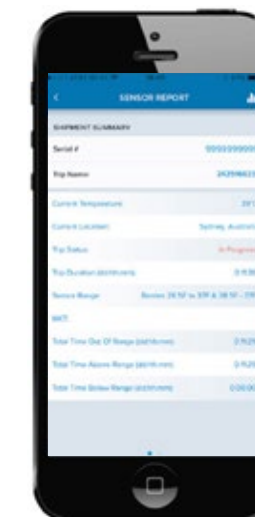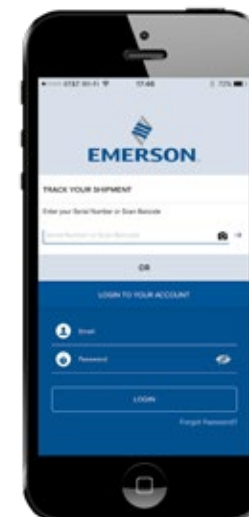Oversight Map View

Oversight Shipment View

Oversight Shipment Route

Oversight Shipment Details

Oversight mobile

Oversight mobile enables you to view critical shipment details including temperature and location in real-time, direct from your smartphone. GO Real-Time Tracker are placed on perishable shipments and communicate data via cellular connectivity. Simply open the Oversight mobile app to view data or set up alerts to be sent directly to your smartphone. Available on Andriod and iOS devices

Scan the QR code and download Oversight on your phone

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