



Product Notification:

CSB #106 2February2021

To: Sensitech Inc. Customers and Distributors
From: Client Services
Date: 2 February 2021
Re: IATA/ICAO Dangerous Goods Regulations, U.S. Department of Transportation (DOT) 49 CFR Parts 171-180, International Maritime Dangerous Goods (IMDG) Regulations 38-16 – Lithium Ion Batteries

Sensitech Products (Formerly FreightWatch International Products) **Real-Time Products Containing Lithium Ion Batteries**

TempTale® GEO, VizComm™ F4, VizComm™ F5, VizComm™ Prime, VizComm™ Prime Extended, Sentry 500 Air Cargo Tracker, ILC2000 FlightSmart® Air Cargo Tracker

Reasons for Notification

IATA has made a change to the 62nd Edition of the IATA Dangerous Goods Regulations regarding the size of the lithium battery dangerous goods mark or label for 2021. This only affects air transportation.

IATA has also published an Addendum to the current 62nd Edition of the IATA Dangerous Goods Regulations that may have an effect on companies who manufacture and transport COVID-19 vaccines, relaxing lithium dangerous goods labeling requirements. These changes became effective on the 1st of January 2021. See Section 4.4 Special Provisions of the IATA Dangerous Goods Regulations which has added SP A220 to UN 3481, PI 967, Section II and UN 3091, PI 970, Section II. In the product breakdown table below we have added notes related to devices monitoring Covid-19 vaccines.

The Sensitech Inc. products identified above can be shipped via **air, ground, and vessel** in accordance with UN 3481, PI 967, Section II – Lithium Ion Batteries Contained in Equipment, IMDG – Special Provision 188 and U.S. DOT 49 CFR Part 171-180.

All Sensitech products comply with the current documented requirements as follows:

- DOT – Lithium Battery - Hazardous Material Regulations (HMR; 49 CFR Parts 171-180)

- IATA – Current IATA Dangerous Goods Regulations
- IMDG –International Maritime Dangerous Goods Regulations 38-16



Sensitech does not recommend using the above data loggers, except the Sentry 500 and ILC 2000, in an operating format for tracking air transport shipments unless the cell signal on the device has been turned off prior to loading on the aircraft. Sensitech recommends using the Sentry 500 and the ILC 2000 for air shipments that are Sensitech “airline approved.” If the above devices (except for the Sentry 500 and ILC 2000) are being shipped via air, they must be shipped in a non-operating mode. Bulk shipments of used devices being consolidated and returned to Sensitech for recycling must be in a non-operating mode prior to shipment.

NOTE: Sensitech has performed all necessary testing and can provide documentation supporting our compliance at your request.

Requirements for Packages Containing Lithium Ion Batteries

- Lithium-ion batteries (sometimes abbreviated Li-ion batteries) are defined as a secondary (rechargeable) battery where the lithium is only present in an ionic form in the electrolyte. Also included within the category of lithium-ion batteries are lithium polymer batteries. (IATA, Lithium Battery Guidance Document, Revised 15 December 2016).
- PI 967 (Lithium Ion Batteries Contained in Equipment) Additional Requirements Section II: Applicable air shipments require a mark. NOTE: see below Product Breakdown for Sensitech specific products that may require a label depending on the number of devices per package for consignments (e.g., with two packages or less or for consignments that contain three or more packages). Air label examples are also shown below.
 - Labeled shipments must contain the words “**Lithium ion batteries in compliance with Section II of PI 967**” included on the air waybill, when an air waybill is used. The information should be shown in the “Nature and Quantity of Goods” box of the air waybill. The package must be of such size that there is adequate space to affix the “Mark” on one side of the package without the “Mark” being folded.
- ** An IATA Shipper's Declaration for Dangerous Goods ** is not required.
- Special procedures must be followed in the event the package is damaged, that should include inspection and repacking if necessary.
 - No transportation via air services allows for damaged packages or contents.

**World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112**

<u>Lithium battery mark effective until December 31, 2020 (Air Shipments Only)</u>	<u>Lithium battery mark effective as of January 1, 2021 (Air Shipments Only)</u>
	
<p>Minimum dimensions: 120 x 110 mm Color: Black with red hatching on a contrasting background. Red hatching must be 5mm.</p>	<p>Minimum dimensions: 100 x 100 mm Color: Black with red hatching on a contrasting background. Red hatching must be 5mm.</p>

Note: Using the 120 x 110 mm label/mark that was part of the 61st edition of the IATA DGR is acceptable because it exceeds the 100 x 100 mm minimum.

Covid-19 Addendum



IATA has recently published an ‘addendum’ to the 62nd Edition of the IATA Dangerous Goods Regulations that may have an effect on companies who manufacture and transport COVID-19 vaccines. These changes became effective on the 1 January 2021. Section 4.4 Special Provisions of the IATA Dangerous Goods Regulations has added SP A220 to UN3481, PI 967, Section II and UN 3091, PI 970, Section II. To summarize aspects of the addendum that pertain to this customer service bulletin regarding UN 3481, PI 967 Section II:

- **Special Provision: A220** Packages containing COVID-19 vaccines accompanied by dataloggers and/or cargo tracking devices containing lithium batteries are not subject to the marking and documentation requirements of Section II of Packing Instruction 967 or 970, as applicable.
 - This pertains to the following:
 - This is only related to air shipments of COVID-19 vaccines.
 - This applies to both UN 3481 (Lithium Ion Batteries CONTAINED in Equipment) and UN 3091 (Lithium Metal Batteries CONTAINED in Equipment).





**World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112**

- This applies to ALL Sensitech type monitors regardless of the type of battery (coin cell, cylindrical cell, lithium ION, etc.)
- Consignments containing monitors where there was a specified limit to the number of devices per package / per consignment that required IATA Lithium Battery Dangerous Goods labeling or a (mark) plus a statement on the Air Waybill, is no longer required so long as the shipment(s) contains COVID-19 vaccines.
- Please see the Product Breakdown table with for **Covid-19 Vaccine shipments = No Label Required** for specific devices this new relaxed IATA Lithium Battery Dangerous Goods mark or label for air shipments only.





Product Breakdown

Sensitech Device	Maximum Number of Devices per Package without IATA Labeling Requirements:	Battery Watt Hour Rating Watt Hours (Wh)	Comments Consignment Level Specifications	IATA (Air) Labeling Requirement(s)
<p>Consignment: Is the equivalent to the term “shipment”, means one or more pieces of goods accepted by the airline from one shipper at one time and to one address, receipted for in one lot, and moving on one air waybill or one shipment record to one consignee at one destination address.</p> <ul style="list-style-type: none"> • (1) Shipper & (1) shipment/consignment to (1) airlines to (1) consignee 				
<p>NOTE: Each individual Sensitech device noted below contains Lithium Ion Batteries.</p>				
<p>TempTale® GEO</p> 	<p>2 devices or less per package = No Label Required</p> <p>More than 2 devices per package requires labeling</p> <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>Single Battery 9.6 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one TempTale GEO device = Label Required • See: PI 967, Section II (additional requirements) <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>≤ 2 Devices = No Label Required</p> <p>> 2 Devices = Label Required</p>  <p>UN 3481 For more information, call XXX.XXX.XXXX</p>





**World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112**





<p>TempTale® GEO (60 Day Model)</p> 	<p>2 devices or less per package = No Label Required</p> <p>More than 2 devices per package requires labeling</p>	<p>Dual Battery 19.24 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one TempTale GEO (60 Day Monitor) = Label Required • See: PI 967, Section II (additional requirements) 	<p>≤ 2 Devices = No Label Required</p> <p>> 2 Devices = Label Required</p> 
<p>VizComm™ F4</p> 	<p>2 devices or less per package = No Label Required</p> <p>More than 2 devices per package requires labeling</p>	<p>14.8 Wh 37 Wh 74 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one VizComm F4 = Label Required • SEE: PI967, Section II (additional requirements) 	<p>≤ 2 Devices = No Label Required</p> <p>> 2 Devices = Label Required</p> 

**World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112**

<p>VizComm™ F5</p> 	<p>2 devices or less per package = No Label Required</p> <p>More than 2 devices per package requires labeling</p>	<p>14.8 Wh 37 Wh 74 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one VizComm F5 = Label Required • See: PI 967, Section II (additional requirements) 	<p>≤ 2 Devices = No Label Required</p> <p>> 2 Devices = Label required</p> 
<p>VizComm™ Prime</p> 	<p>2 devices or less per package = No Label Required</p> <p>More than 2 devices per package requires labeling</p>	<p>Single Battery 38.48 Wh.</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one VizComm Prime = Label Required • See: PI967, Section II (additional requirements) 	<p>≤ 2 Device = No Label Required</p> <p>> 2 Device = Label Required</p> 

World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112

<p>VizComm™ Prime Extended</p> 	<p>1 device or less per package = No Label Required</p> <p>More than 1 device per package requires labeling</p>	<p>Single Battery</p> <p>79.96 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 2 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one VizComm Prime Extended device = Label Required • See: PI 967, Section II (additional requirements) 	<p>≤ 1 Device = No Label Required > 1 Device = Label Required</p> 
<p>SENTRY 500 Air Cargo Tracker (Single Battery)</p> 	<p>5 devices or less per package - No Label Required</p> <p>More than 5 devices per package requires labeling</p> <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>Lithium-ion Rechargeable Battery (internal)</p> <p>19.3 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 4 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one Sentry 500 = Label Required • See: PI 967, Section II (additional requirements) <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>≤ 5 Devices = No Label Required > 5 Devices = Label Required</p> 

<p>SENTRY 500 Air Cargo Tracker (includes with Extended Battery)</p> 	<p>2 devices or less per package - No Label Required</p> <p>More than 2 devices per package requires labeling</p> <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>Lithium-ion Rechargeable Battery (internal)</p> <p>38.6 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 4 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one Sentry 500 = Label Required • See: PI 967, Section II (additional requirements) <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>≤ 2 Devices = No Label Required > 2 Devices = Label Required</p> 
<p>ILC2000 FlightSmart® Air Cargo Tracker</p> 	<p>4 devices or less per package = No Label Required</p> <p>More than 4 devices per package requires labeling</p> <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>Lithium-ion Rechargeable Battery (internal)</p> <p>6.96 Wh</p>	<p>Labeling requirements do not apply to consignments of 2 packages or less where each package contains no more than 4 devices = No Label Required</p> <ul style="list-style-type: none"> • Consignments with more than two packages where each package contains at least one ILC2000 FlightSmart Air Cargo Tracker = Label Required • See: PI 967, Section II (additional requirements) <p>Covid-19 Vaccine shipments = No Label Required</p>	<p>≤ 4 Devices = No Label Required > 4 Devices = Label Required</p> 

IMPORTANT MESSAGE:

- The presence of the Lithium Battery Handling Mark on the package(s) triggers the requirement for the following statement to be included on the Air Waybill “Lithium Ion Batteries in compliance with Section II of PI 967”
- For vessel (ocean) shipments, all devices that require labeling above based on current IATA DG Regulations, also require the old 120 mm x 110mm lithium mark lithium Mark UN 3481 when the consignment contains more than two packages per IMDG Special Provision 188.1. (Example: A consignment containing the TempTale® GEO units would require the UN3481 Mark if the consignment contained 3 or more packages with this device. In other words, the labeling requirements outlined in IMDG Special Provision 188.1 regulations mirror current IATA DG Regulations.)
- For ground shipments, all devices that require labeling above based on current IATA DG Regulations, also require the old 120 mm x 110mm lithium mark lithium Mark UN 3481 when the consignment contains more than two packages for W. Europe per ADR Special Provision 188(a) and 188(f)(i); for the United States per 49CFR§173.185(c.); and for Canada per TDG Special Provision 34(1) labeling follows current IATA DG for the number of devices per Package without IATA labeling requirements: (However – for Canada TDG the consignment-level specification does not apply).

Reference: IATA, Dangerous Goods Regulations, Packing Instruction 967 Section II (Additional Requirements)

Note: Supporting documentation available upon request are Material Safety Datasheets (MSDS) and UN 38.3 compliance from the specific battery manufacturers. Additionally, we can provide upon request, compliance certifications relative to drop and vibration testing, CE testing, IP Code Testing, and RTCA/DO160 G testing.

Customer Support

If you have any questions about this information, please contact your local Client Services Representative at one of our Regional Headquarters listed below.

Sensitech Inc.

USA World Headquarters	1-800-843-8367 or +1-978-927-7033
Austin, Texas USA	1-512-225-6490
South America	+56-2-2-9416600 (Chile) or +55-19-3399-8650 (Brazil)
Mexico	+52-55-53743103 or +52-55-53599929
EMEA	+31-252-211-108
Asia	+852-2880-0389
Global Email	Sensitech.clientservices@carrier.com

The information and recommendations set forth in this Product Alert Notification are made in good faith and believed to be accurate as of the date of preparation. The information is provided for your general guidance and is not intended to provide you with legal advice. Sensitech Inc. makes no warranty, expressed or implied, with respect to this information, and disclaim all liabilities from reliance on it. Please consult your own legal advisor before taking any action based on the information provided herein.

**World Headquarters 800 Cummings Center, Suite 257X,
Beverly, MA 01915 USA
+1-978-927-7033 • (800) 843-8367 • FAX +1-978-921-2112**