



# **Cargo Electronic Devices Approval List**

**Issue 28 – Oct 2025**



# Cargo Electronic Devices Approval List

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# Cargo Electronic Devices Approval List

## 1. Introduction

Virgin Australia recognises the requirement for Cargo Consignments to be monitored during all phases of shipment, including temperature monitoring, geolocation tracking, etc.

Cargo Electronic Devices (CEDs), sub-categorised as either Cargo Tracking Devices (CTDs) or Cargo Dataloggers (CDLs) are used by airlines and passengers to track baggage or cargo being transported.

Typically, CTDs contain a cellular radio which communicates with the existing cellular infrastructure to provide updates on the cargo location and other optional data such as temperature, humidity, shock, vibration, etc. On the other hand, CDLs typically records the data mentioned above. The data is saved to the internal memory. The interface to the data would be via USB, or Bluetooth in later versions. CDLs that are Wireless Technology enabled, will be addressed in the same manner as the CTDs as they contain a radio as well.

CEDs are not installed on the aircraft. These devices are placed with cargo or baggage, which effectively categorise them as Portable Electronic Devices (PED) or Transmitting Portable Electronic Devices (TPED) in the case where it communicates via radio. Guidance as to the suitability of CEDs on-board aircraft to ensure no interference with aircraft systems is provided in FAA Advisory Circular AC 91.21-1D (Latest Revision).

## 2. Scope

The Cargo Electronic Devices Approval List (CEDAL) has been prepared through collaboration of Virgin Australia Engineering and approved third party Subject Matter Experts (SMEs) to provide guidance and approval for Cargo Electronic Devices to be utilised by Cargo Companies on-board Virgin Australia aircraft.

The CEDAL lists those devices currently approved for uplift on Virgin Australia aircraft along with;

- Virgin Australia Regional Airlines (VARA) Airbus A320 and;
- Alliance (QQ) Fokker 70/100 & Embraer E190.

## 3. Guidance

It is important to review the Cargo Electronic Devices Approval List (CEDAL) before providing authority for Cargo Electronic Devices (CEDs) to be attached to Cargo carried on-board Virgin Australia aircraft.

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## 4. Queries and Approval

This CEDAL is to be used for reference only – if the CED is not listed on the below list, a formal Request for Approval is required before use of unlisted device.

When reviewing approved devices, it is imperative that the aircraft type (i.e. B737-8, E190) booked for carriage is considered to ensure appropriate approvals are in place. Approvals do vary from aircraft type to aircraft type.

Initial contact for Queries and Approvals for Virgin Australia Boeing 737 and VARA Airbus A320, contact:

Cargo Control Centre: [cargocontrolcentre@virginaustralia.com](mailto:cargocontrolcentre@virginaustralia.com)

Please submit an e-mail request for CED with ALL of the following information and substantiation data. Any gaps in required information will delay assessment and response.

*This request form will facilitate assessment for suitability on **Virgin Australia and Virgin Australia Regional Airlines (VARA)** aircraft types only. For approvals on Alliance aircraft please make contact directly with Alliance.*

### Information required for assessment:

- i. **Design Information**
  1. Pictures of Device and associated Peripherals
  2. Product Label
  3. Operational Description of Device and Peripherals
  4. Manufacturer Statement of Strict Design and Production Controls
  5. Battery design standard and relevant qualification documentation for devices using a lithium battery
  
- ii. **Emissions Limits and Peripheral Devices**

Device is to meet RF radiated emissions limits as described in RTCA DO-160G (or later revision), Section 21, **Category H\*** (Environmental Conditions and Test Procedures for Airborne Equipment)  
*\* Category H at minimum*
  
- iii. **Means to Shut Off PED**

If no report is available for Item (ii) above, then the device must be designed with a minimum of two independent means to:

  - 1) Turn off completely; or
  - 2) Turn off cellular or mobile functions; or
  - 3) A combination of both when airborne.

NOTE 1: The independent means must identify different sources, i.e. two similar, yet separate, sources of the same type are not considered independent.

NOTE 2: The device may use low-powered wireless communications during flight without the requirement to comply with NOTE 1 above, i.e. Bluetooth (IEEE 802.15.1) and ZigBee (IEEE 802.15.4). The low-power limit is 100mW EIRP (Effective Isotropic Radiated Power). WLAN (IEEE 802.11) may exceed 100mW and these devices should be reviewed.
  
- iv. **Signals**

The device must not emit any audible or visually disturbing signals during transport.
  
- v. **PED Batteries**

Battery Design Standard and Relevant Battery Qualification Documentation if the device contains a Lithium battery. **Including battery type (cell or battery). Lithium content and watt hours or voltage.** Examples of design standards and documentation are:  
TSO-C142a, Non-Rechargeable Lithium Cells and Batteries, dated August 7, 2006  
IEEE Std 1625 / 1725, IEEE Standard for Rechargeable Batteries for Portable Computing  
ST/SG/AC.10/11, Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Section 38.3

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## 5. Important Information

It should be noted that Virgin Australia aircraft are typically PED/TPED approved to industry standards listed below:

- RTCA/DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment
- RTCA/DO-294C, Guidance on Allowing Transmitting Portable Electronic Devices (T-PEDs) on Aircraft
- RTCA/DO-307, Aircraft Design and Certification of Portable Electronic Devices (PEDs) Tolerance

Further substantiation data can be found in the latest revision of the following reports (available on request):

- B737: Boeing Drawing 222A4006

It should be noted that Virgin Australia Regional Airlines (VARA) aircraft are typically PED/TPED approved to industry standards listed below:

- RTCA/DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment
- RTCA/DO-294C, Guidance on Allowing Transmitting Portable Electronic Devices (T-PEDs) on Aircraft
- RTCA/DO-307, Aircraft Design and Certification of Portable Electronic Devices (PEDs) Tolerance

Further substantiation data can be found in the latest revision of the following reports (available on request):

- B737: Boeing Drawing 222A4006

For Alliance aircraft types covered under this CEDAL (Fokker 70/100 and Embraer 190) assessment and criteria is managed internally by Alliance Airlines and reviewed regularly for accuracy.

Approval processes will be prioritised by Virgin Australia Cargo at their discretion in conjunction with GSAero and VA Engineering. Prioritisation review time frames are as listed below, however are subject to change, the availability of GSAero and Virgin Australia Engineering and other operational demands. The level of prioritisation will be allocated via Virgin Australia Cargo in concert with technical experts.

1. **Urgent:** 15 Business Days\*
2. **High:** 30 Business Days\*
3. **General:** 90 Business Days\*

\* from receipt of a complete application including all data and certifications.

## 6. Limitations

The following limitations exist pertaining to the use of CEDs:

- CED placement is limited to the Cargo Bay or Compartment
- CED is not permanently installed to the aircraft
- CED uses its own internal power source (cell or battery)
- CED is not connected to the Aircraft
- Packages are to be labelled in accordance with IATA DGR accounting for Lithium battery types – as per *IATA 2021 Guidance Document – Battery Powered Cargo Tracking Devices / Data Loggers: Revised for the 2021 Regulations – Revision 1*.

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## 7. Instructions for Shippers using Approved Data Loggers

To ship cargo containing approved data loggers or similar cargo electronic devices, the shipper/consignor must ensure the following steps are completed and required information provided on the accompanying AWB.

- Ensure that the device is approved by Virgin Australia Cargo (see section 8.) — see the list of approved Data Loggers over page.
- Inform the cargo booking that you are going to transport the device through comments on AWB.
- The device must be well packed by the shipper.
- Include the following information in the Handling Information field in the Air Waybill:
  - Type of device. E.g. Tracker
  - Model. E.g. Fairdinkum Tracker
  - Type of battery or cells. E.g. Lithium Ion Cell

## 8. Approval List – Approved for Use on VA Fleet and Partner Aircraft (over page)



# Cargo Electronic Devices Approval List

| Manufacturer | Make          | Model             | ESR Reference         | Report Reference^^         | Lithium Battery Marking Required* | DG Approval*     | Virgin Australia (VA)                             | Virgin Australia Regional Airlines (VARA) | Alliance Airlines (QQ) | Alliance Airlines (QQ) |
|--------------|---------------|-------------------|-----------------------|----------------------------|-----------------------------------|------------------|---|---|------------------------|------------------------|
|              |               |                   |                       |                            |                                   |                  | 737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Airbus 320                                | Fokker 70/100          | Embraer 190            |
| Approved     | Approved      | Approved          | Approved              | Approved                   | Approved                          | Approved         | Approved  | Approved                                  | Approved               | Approved               |
| Apple Inc.   | AirTag        | AirTag (Series 1) | N/A                   | ER-1015-001 Issue 8        | No°                               | Yes <sup>1</sup> | YES   | YES                                       | NO                     | NO                     |
| Berlinger    | Q-tag®        | CLm doc           | 1262508               | VAER-4420-001              | No°                               | Yes <sup>1</sup> | YES   | NO  | YES                    | YES                    |
| Berlinger    | Q-tag®        | CLm doc D         | 1262508               | VAER-4420-001              | No°                               | Yes <sup>1</sup> | YES   | NO  | YES                    | YES                    |
| Berlinger    | Q-tag®        | CLm doc L         | 1262508               | VAER-4420-001              | No°                               | Yes <sup>1</sup> | YES   | NO  | YES                    | YES                    |
| Berlinger    | Q-tag®        | CLm doc LR        | 1262508               | VAER-4420-001              | No°                               | Yes <sup>1</sup> | YES   | NO  | YES                    | YES                    |
| Berlinger    | Smart Monitor | Ship L            | ER-10105-001 Issue 11 | VAC- 03860319              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Berlinger    | Smart Monitor | Ship M            | ER-10105-001 Issue 11 | VAC- 03860319              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Berlinger    | Smart Monitor | Ship S            | ER-10105-001 Issue 12 | VAC- 03860319              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Controlant   | Saga          | Saga              | N/A                   | ER-10105-001 Issue 4       | No°                               | Yes <sup>1</sup> | YES   | YES                                       | YES                    | YES                    |
| Controlant   | Saga          | Saga-P            | N/A                   | ER-10105-001 Issue 4       | No°                               | Yes <sup>1</sup> | YES   | YES                                       | YES                    | YES                    |
| Controlant   | Saga          | Saga-H            | N/A                   | ER-10105-001 Issue 4       | No°                               | Yes <sup>1</sup> | YES   | YES                                       | YES                    | YES                    |
| Emerson      | GO            | Real-Time         | 1262509               | VAER-4420-004              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Emerson      | GO            | Real-Time XL      | 1262509               | VAER-4420-004              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Emerson      | GO            | Real-Time LUX     | 1262509               | VAER-4420-004              | No°                               | Yes <sup>1</sup> | YES   | NO  | NO                     | NO                     |
| Emerson      | GO            | Wireless          | 1262509               | VAER-4420-005 <sup>2</sup> | No°                               | Yes <sup>1</sup> | YES   | NO  | YES                    | YES                    |



# Cargo Electronic Devices Approval List

|                     |   |              |               |                      |  |                  | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|---------------------|---|--------------|---------------|----------------------|--|------------------|--|---|---|---------------------------------------|
| Manufacturer        | Make  | Model        | ESR Reference | Report Reference^^   | Lithium Battery Marking Required*              | DG Approval*     | Approved   | Approved  | Approved                                | Approved                              |
| Escavox             | Blue Box  | gSense30g-02 | 1294423       | VAER-4420-012        | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Frigga              | Frigga  | T7           | N/A           | ER-10105-001 Issue 7 | No°  | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| Frigga              | Frigga  | V5           | N/A           | ER-10105-001 Issue 7 | No°  | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| 7PSolutions         | GL521MG   | Tracker      | N/A           | ER-1015-001          | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| Kirsan Technologies | A-Type Device<br>Also known as "DB Schenker Smartbox"<br>(under commercial agreements). |              | 1262506       | VAER-4420-003        | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Logmore             | QR Tag  | Model One    | 1302468       | VAER-4420-024        | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Logmore             | QR Tag  | Model Two    | 1302468       | VAER-4420-024        | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Logmore             | QR Tag  | Model Three  | 1302468       | VAER-4420-024        | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| OnAsset             | Sentry  | 400          | 531615        | GS Aero ER-10105-001 | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| OnAsset             | Sentry  | 500          | 531615        | GS Aero ER-10105-001 | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| OnAsset             | Sentry  | 600          | 1382863       | VAER-4420-029        | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| RoamBee             | BeeSense  | Flex         | 1382865       | VAER-4420-030        | Yes°   |                  | YES  | NO  | NO                                      | NO                                    |



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|              |                 |   |               |                        |  |                  | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|--------------|-----------------|---|---------------|------------------------|--|------------------|--|---|---|---------------------------------------|
| Manufacturer | Make            | Model   | ESR Reference | Report Reference^^     | Lithium Battery Marking Required*              | DG Approval*     | Approved   | Approved  | Approved                                | Approved                              |
| RoamBee      | BeeSense        | RMBU_3GTR<br>Also known as Bee Sense, Bee, 3G Bee and Sensor Bee. | 1252507       | VAER-4420-002          | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| RoamBee      | BeeBeacon Sense | BB-TPH-1  | 1290448       | VAER-4420-006          | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| RoamBee      | BeeBeacon Aware | BB-SEC-1  | 1291155       | VAER-4420-007          | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | Tag Alert       | Tag Alert   | N/A           | ER-1015-001<br>Issue 9 | No°  | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| Sensitech    | Tag Alert       | Tag Alert Enhanced  | N/A           | ER-1015-001<br>Issue 9 | No°  | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| Sensitech    | TempTale        | Geo Ultra   | 1302433       | VAER-4420-023          | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | TempTale        | Geo Ultra with Probe  | 1306485       | VAER-4420-025          | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | TempTale 4      | TempTale 4  | 1299199       | VAER-4420-021          | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | TempTale 4      | Bio   | 1299199       | VAER-4420-021          | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | TempTale 4      | Humidity  | 1299201       | VAER-4420-022          | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |



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|              |                  |                   |               |                    |  |                  | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|--------------|------------------|-------------------|---------------|--------------------|--|------------------|--|---|---|---------------------------------------|
| Manufacturer | Make             | Model             | ESR Reference | Report Reference^^ | Lithium Battery Marking Required*              | DG Approval*     | Approved   | Approved  | Approved                                | Approved                              |
| Sensitech    | TempTale 4 (TT4) | USB               | 1294267       | VAER-4420-008      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale 4 (TT4) | USB Dry Ice       | 1294267       | VAER-4420-009      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale 4 (TT4) | Multi-Alarm       | 1294267       | VAER-4420-010      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale 4 (TT4) | USB Multi-Alarm   | 1294267       | VAER-4420-010      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale 4 (TT4) | Probeless Dry Ice | 1294267       | VAER-4420-011      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra   | 16K               | 1295078       | VAER-4420-013      | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra   | 64K               | 1295078       | VAER-4420-013      | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra   | BIO               | 1295084       | VAER-4420-015      | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |



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|              |                |                   |                       |                    |  |                  | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|--------------|----------------|-------------------|-----------------------|--------------------|--|------------------|--|---|---|---------------------------------------|
| Manufacturer | Make           | Model             | ESR Reference         | Report Reference^^ | Lithium Battery Marking Required*              | DG Approval*     | Approved   | Approved  | Approved                                | Approved                              |
| Sensitech    | TempTale Ultra | Dry Ice Probe     | 1295086               | VAER-4420-016      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra | Fit               | 1295091               | VAER-4420-017      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra | Humidity          | 1295092               | VAER-4420-018      | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra | Probe             | 1295093               | VAER-4420-019      | No°<br>(if 2 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra | Probeless Dry Ice | 1295094               | VAER-4420-020      | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale Ultra | BLE               | ER-10105-001 Issue 13 | SF- 04016696       | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale GEO   | X                 | ER-10105-001          | SF- 03756714       | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale GEO   | XE                | ER-10105-001          | SF- 03756714       | No°<br>(if 3 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | TempTale GEO   | XP                | ER-10105-001          | SF- 03756714       | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |



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|              |                    |                       |               |                        |  |                  | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|--------------|--------------------|-----------------------|---------------|------------------------|--|------------------|--|---|---|---------------------------------------|
| Manufacturer | Make               | Model                 | ESR Reference | Report Reference^^     | Lithium Battery Marking Required*              | DG Approval*     | Approved   | Approved  | Approved                                | Approved                              |
| Sensitech    | TempTale GEO       | XEP                   | ER-10105-001  | SF- 03756714           | No°<br>(if 3 or less trackers per consignment) | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Sensitech    | Vizcomm®           | View Ultra            | 1302433       | VAER-4420-023          | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sensitech    | Vizcomm®           | View Ultra with Probe | 1306485       | VAER-4420-025          | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Sony         | VT-G100            | -                     | 1349083       | VAER-4420-028          | Yes°   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Tec4med      | Tec4med            | TempBeacon            | 1400906       | VAER-4420-031          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tec4med      | Tec4med            | SmartBeacon           | 1400906       | VAER-4420-031          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tec4med      | Tec4med            | CryoBeacon            | 1400906       | VAER-4420-031          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tec4med      | Tec4med            | SmartHub - Alkaline   | 1405287       | VAER-4420-032          | No° (Alkaline)                                 | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tec4med      | Tec4med            | SmartHub - Li-Po      | 1405287       | VAER-4420-032          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tec4med      | Tec4med            | SmartLock             | 1405287       | VAER-4420-032          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tempmate     | Tempmate           | S1V2                  | N/A           | ER-1015-001<br>Issue 8 | No°  | Yes              | YES  | YES   | NO                                      | NO                                    |
| TinyTag      | View 2             | TV-4204               | -             | ER-10105-001 / 6       | No°  | Yes <sup>1</sup> | YES  | YES   | NO                                      | NO                                    |
| Tive         | Temperature Beacon | TT-6000               | 1310319       | VAER-4420-027          | No°  | Yes <sup>1</sup> | YES  | NO  | YES                                     | YES                                   |
| Tive         | tiveSolo5G         | TT-7000               | 1308383       | VAER-4420-026          | No°  | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |



# Cargo Electronic Devices Approval List

| Manufacturer | Make          | Model       | ESR Reference         | Report Reference^^ | Lithium Battery Marking Required* | DG Approval*     | Virgin Australia (VA)<br>737 Boeing 737-700/800 (NG)<br>Boeing 737-8 (MAX) | Virgin Australia Regional Airlines (VARA)<br>Airbus 320 | Alliance Airlines (QQ)<br>Fokker 70/100 | Alliance Airlines (QQ)<br>Embraer 190 |
|--------------|---------------|-------------|-----------------------|--------------------|-----------------------------------|------------------|--|---|---|---------------------------------------|
| Tive         | tiveSolo5G    | TT-7100     | 1308383               | VAER-4420-026      | No <sup>o</sup>                   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Tive         | Tive Tag T1   | Temp Logger | ER-10105-001 Issue 13 | SF- 03006065       | No <sup>o</sup>                   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |
| Tzone        | TempU08       | Temp Logger | -                     | ER-10105-001 / 5   | No <sup>o</sup>                   | Yes <sup>1</sup> | YES  | YES   | YES                                     | YES                                   |
| Zimgeneers   | ZISO PetTrakR | G013A       | 1423585               | VAER-4420-033      |                                   | Yes <sup>1</sup> | YES  | NO  | NO                                      | NO                                    |

\* DG (Dangerous Goods) Approval for Battery Carriage / Use

<sup>1</sup> Approved per current VAGP A6 DG Manual

<sup>2</sup>It is advised that the Bluetooth capability of this device is deactivated prior to flight in accordance with the user manual.

^^Report reference for those items assessed by VA IFE for VA Aircraft types

\* Packages containing lithium batteries installed in equipment such as a data logger must bear the lithium battery mark as shown in Figure 7.1.C of the IATA DGR, see Figure 3. The border of the label must have red diagonal hatchings 5 mm in width with text and symbols in black on a white or contrasting background. The lithium battery mark may be printed directly on the outer packaging provided that there is sufficient contrast between the elements of the lithium battery mark and the colour of the packaging material. The mark must be in the form of a rectangle or a square with minimum dimensions are 100 mm x 100mm.

Exceptions:

1. the lithium battery mark is not required on packages where the data loggers are powered by only button (coin) cells (regardless of the quantity of data loggers in a particular package or the number of packages in a consignment);
2. the lithium battery mark is not required on packages where there are no more than 4 cells or 2 batteries contained in equipment in each package and there are no more than **two** packages in the consignment;



# Cargo Electronic Devices Approval List

## 9. Approval List – NOT Approved for Use

| Manufacturer | Make | Model  | ESR Reference |
|--------------|------|--------|---------------|
| Sendum       |      | PT300  | 1267757       |
| Sendum       |      | PT300D | 1267757       |



# Cargo Electronic Devices Approval List