



LV-400

The New Standard for Reefer Monitoring

The LV-400 enables users to monitor and remotely manage refrigerated trailers and cargo. Our seamless two-way integration with Carrier Transicold and Thermo King refrigeration units allow users to remotely control and monitor a reefer from their web browser. The solution delivers around-the-clock refrigerated trailer monitoring regardless of hooked or dropped status including location, set point temperature, inlet and outlet air temperature, fuel level (even when the reefer is turned off), and alarm events with notification occurring in real time. All conveniently accessible on our easy to use web-based User Interface. Additionally, our data Interfaces with many fleet management systems such as TMW, McLeod, and AddOn Systems to enable seamless data integration.

Features

- Full reefer monitoring of temperature, alarms, operational status, and changes
- Geofencing for accurate reporting of arrival and departure times
- Two-way command and control to change set point temperatures as necessary from dispatch
- Dwell time reporting
- GPS tracking
- Fuel usage reporting by landmark
- Landmark reporting with fuel level capture upon arrival and departure
- Reduced labor costs with automated or desktop yard checks
- Intellisat and OptiSet supported
- Prevention of cargo claims
- Improve maintenance scheduling

Problems Solved

Freight Visibility: Location, environmental condition

Reduce load/loss damage: Alerting on temperature out of range, unscheduled door openings, and route variation.

Cost Reduction: Manage and reduce maintenance costs through engine hour tracking.

Fleet Performance: “Landmarks” to automatically show when trailers arrive and depart. Receive alerts to start billing for detention and captures fuel levels.

INTELLIGENT LOGISTICS
Powerful Insights
Smarter Decisions
Higher Performance



LV-400: Real-time temperature management and control

Intelligent Logistics

The LV-400 provides critical insight on status and condition of your refrigerated trailer fleet. Tethered or untethered, the LV-400 updates you with out of range alert notifications, Fuel Level status, landmark arrival and departure, and the accurate proof of temperature information you need to manage your FSMA compliance. Simplify your maintenance program by automatically recording refrigeration unit engine hours and fault codes, helping you schedule preventative maintenance and real-time temperature management and control at all times.

View trailer temperature, fuel level, location, and more from our Android/IOS app

Receive email alerts for out of range conditions.

View hitched/unhitched.

Rules-based alarms that generate alerts only when you need to know.

Integration to auxiliary fuel sensors when refrigeration unit is off

Capture door open and close.

Specifications/Certifications

Dimensions	118mm x 133mm x 36mm
Cellular	LTE, EC21-A, 3G/GSM Fall back is also available LTE/3G for high data bandwidth capability and fast data transfer rate
GPS Receiver	SiRFstarIV, M10478-A3, 66 channels
Bluetooth & Sensor	Bluetooth / Low power IoT connectivity Built-in 3-axis accelerometer (±2/8g)
CANbus Interface	J1939
Operating Temperature	-30°C — +85°C
Certifications	FCC, CE, IP67
Interface ports	Digital Input : 2 ports up to 4 ports (optional) Digital Output : 2 ports (Voltage level fixed) Analog input : 3ch, 12bit (Voltage range fixed) Serial Port (RS232) : 1 COM Port up to 2 Ports (optional) Dallas One-Wire Connector: 12 pins, male
Software Features	Over-the-air FW/BL

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