

VeriWise™ Solutions for Reefers

VeriWise has been delivering increased utilization, productivity, and detention revenue for customers since 1999. VeriWise with Reefer Control is an innovative reefer monitoring and control solution, ensuring that your perishable cargo is protected at every step of its journey.

Reefer Monitoring

VeriWise provides real-time status information and warnings for Carrier and Thermo King units, including set-point data for up to three compartments, as well as alarm conditions, fault codes, door status, operating modes, fuel level, battery voltage, and reefer operating hours. Continuous logs of reefer conditions and operational status can be viewed via the VeriWise Intelligence Platform (VIP) website. Warnings regarding temperatures out of range, low fuel or battery, or critical faults in the reefer can be sent via e-mail or text message immediately when they occur.

Features

- Remote startup and setting control for Thermo King and Carrier reefers
- Monitors temperature and setpoint for single and multi-temp units
- Monitors conditions throughout the trailer with up to four door and six independent temperature sensors
- Monitors reefer battery, fuel levels, and operating status
- Captures reefer fault codes and transmits according to user preferences
- Captures beginning/end-of-drive, operating modes, and reefer hours
- Delivers continuous reefer logs in real-time

Reefer Control

VeriWise with Reefer Control also enables remote setting changes to refrigerated assets without requiring physical access to the unit. Precooling for loads may be activated over-the-air through the VIP website, freeing yard personnel to focus on other tasks, and ensuring that reefers are running at their scheduled times. Over-the-road operating conditions may also be corrected remotely, allowing drivers to continue delivery without stopping to manually adjust settings.

Time-Tested and Customer Proven

Asset Intelligence works with some of the world's largest transportation companies to develop and deliver proven fleet management tracking solutions. Our combined satellite and cellular-based solutions portfolio is unmatched in the industry, and we have demonstrated that fleet management works - and pays. Put Asset Intelligence to work for you today and reap the rewards of better fleet management.

Web-Based Interface

- Send remote requests to turn units on or off, request pretrip reports, and adjust operating settings for one or more reefers
- Capture fuel usage data for accessorial charges
- Dashboard reporting of all active reefer alarms
- Receive alerts via web, email, or text for temperature and operability alarms that can cause lost loads
- Wireless proof of environmental quality
- Prevent fuel outages with advanced fuel warnings
- Provides two levels of sensitivity for battery, fuel, and temperature variations

VeriWise™ CELLULAR Reefer with Control GSM-D200



Asset Intelligence™										AI DEMO - AI DEMO		Log-out					
An I.D. Systems™ Company																	
Home	Find Asset(s)	Ping Asset	Reports	Reefer	Configure	Help											
#	Event	Event Time	Location	Speed/Dir	Power State	Operating Mode	Reefer Temp/Set Point	Discharge Air Temp	Alarms	Fault Codes	Crit Temp	Rear Temp	Wdg Temp	Door	Hooked	Electric Vehicle Eng Hrs	Engine Speed (RPM)
1	Pre-Trip Request	11/23/09 08:24AM	1435 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	10/ENE	On	Z1: Cooling Z2: Continguous High Speed Z2: Defrost	Z1: 0/-10 Z2: 50/50	Z1: -9 Z2: 80		18.03	76	40	T1: 89 T2: 0 T3: 50	Open	Yes	1380	745
2	Remote Alarm Cleared	11/23/2009 06:10AM	1436 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed Z2: Defrost	Z1: 0/-10 Z2: 50/50	Z1: -9 Z2: 80	Z1: Shutdown Z2: Non-Shutdown		76	40	T1: 89 T2: 0 T3: 50	Open	Yes	1377	700
3	Success Control Request 8922287	11/22/2009 05:45PM	1436 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed Z2: Defrost	Z1: 0/-10 Z2: 50/51	Z1: -9 Z2: 81	Z1: Continuous failed Z2: Setpoint to 18F failed Z2: Continuous failed		76	40	T1: 89 T2: 0 T3: 50	Open	Yes	1370	700
4	Failed Control Request 8922287	11/22/2009 05:38PM	1436 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed Z2: Defrost	Z1: 0/-10 Z2: 50/51	Z1: -9 Z2: 81	Z1: Continuous failed Z2: Setpoint to 18F failed Z2: Continuous failed		76	40	T1: 89 T2: 0 T3: 50	Open	Yes	1370	700
5	Temp Variance Alarm	11/22/2009 03:28PM	1436 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed	Z1: 0/-5 Z2: 20/18	Z1: -9 Z2: 16	Wdg Temp 1 above Z2 Supply range		76	18	T1: 26 T2: -2 T3: 56	Closed	No	1361	700
6	Local Panel Change	11/22/2009 12:18PM	1437 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed	Z1: 0/-5 Z2: 20/18	Z1: -9 Z2: 16	Z1: Continuous enabled Z2: Setpoint to 18F Z2: Continuous enabled		76	18	T1: 26 T2: -2 T3: 57	Closed	No	1356	700
7	Reefer Comm Restored	11/22/2009 11:40AM	1438 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed	Z1: 0/-5 Z2: 20/18	Z1: -9 Z2: 16	Reefer Comm Restored		76	18	T1: 26 T2: -2 T3: 57	Closed	No	1354	700
8	Reefer Comm Lost	11/22/2009 10:45AM	1439 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	Off	N/A	N/A	N/A	Reefer Comm Lost		N/A	25	T1: 26 T2: -2 T3: 57	Closed	No	N/A	N/A
9	Reefer Control Request 8922287	11/22/2009 08:11AM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Fuel Loss Alarm	11/22/2009 06:01AM	1441 Old Cowington Rd NE, Georgia 30010 24 ESE of Atlanta, GA	0	On	Z1: Cooling Z2: Continguous High Speed	Z1: 0/-5 Z2: 20/18	Z1: -9 Z2: 16	30% Fuel Loss in 3hr		76	18	T1: 26 T2: -2 T3: 57	Closed	No	1352	700

Monitoring your cold chain assets with VeriWise provides real-time alerts of critical changes in reefer operation and temperature conditions.

VeriWise CELLULAR Refrigerated with Control

How can VeriWise help you?

The chart below contains a sampling of the concerns we can help you solve. Ensure your perishable cargo is tracked at every step of its journey.

	Managing through HOS changes	Improved trailer utilization	Accurate detention billing data	Monitoring high value loads	Improved maintenance scheduling	Need better "view" to my fleet
Landmarking/ Proximity Searching	<ul style="list-style-type: none"> Generate higher detention billings Helps improve driver/trailer productivity Less time waiting for open docks 	<ul style="list-style-type: none"> Helps lower trailer/tractor ratio Less idle assets 	<ul style="list-style-type: none"> Data to support detention billings Greater detention billing revenue 	<ul style="list-style-type: none"> Prevent cargo loss - reduce insurance claims Helps run tighter JIT operations 	<ul style="list-style-type: none"> Helps improve maintenance scheduling Helps manage trailer movements through maintenance shops 	<ul style="list-style-type: none"> Helps improve productivity and utilization Helps run tighter JIT operations Less idle assets
Location	✓	✓	✓	✓	✓	✓
Geo-fencing	✓		✓	✓	✓	✓
Low Battery	✓	✓			✓	✓
Alerts	✓	✓	✓	✓	✓	✓
Idle Asset Reporting	✓	✓	✓		✓	✓
Emergency Tracking		✓		✓		✓
Landmarking/ Proximity Searching	✓	✓		✓		✓
Landmarking/ Proximity Searching	✓		✓	✓	✓	✓

General Specifications

Hardware dimensions*	8"(L) x 6"(W) x 2"(D)
Operating temperature	-30°C/-22°F to +70°C/158°F
Storage temperature	-40°C/-40°F to +85°C/185°F
Supply voltage	10-36V
Supply current	2A max
Wireless network	GPRS
5 digital inputs	
Up to 6 independent temperature sensors	
2 RS-232 connectors for external devices	
IPx6K, and SAE J1455 certified	

* Additional hardware may be required, depending on the reefer manufacturer and model.

About Asset Intelligence

Asset Intelligence is focused on delivering solutions to address the challenges of the global supply chain. By leveraging the latest wireless communications and web technologies, the VeriWise satellite and cellular-based platforms offer intelligent solutions that provide shippers and carriers with tools to better manage fleets, freight, and maintenance operations. Quick access to actionable intelligence empowers you to make more informed decisions about securing and optimizing your asset portfolios and streamlining your supply chains.

For more information about our VeriWise solutions, visit www.id-systems.com/assetintelligence or call 1-877-983-7466



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