

ReeferTrak® SENTRY

THE DRIVING FORCE IN COLD CHAIN MANAGEMENT



The 2-way reefer interface with cellular communications:

- Command & control with both Carrier Transicold and Thermo King refrigeration unit microprocessors
- Broad coverage throughout North America
- Instant poll or command response
- Reefer functions w/ GPS – door, on/off, set point, unhook, refueled, visibility of operating conditions when dropped
- Full Logistics – location, geofencing, dwell/detention time
- Alarms, fuel, pre-trip and maintenance
- Exception-based management and data mining
- Integration with Information Technology systems

...Complete, real-time reefer operations via the Internet

THE OPERATIONAL SAVINGS

- Reduced claims and improved shipment quality
- Radically lower fuel costs
- Improved management of assessorial
- Improved trailer and tractor utilization
- Measured performance to plan
- Efficient pre-cooling operations
- Lessened driver dependence
- Remote pre-trip operations
- Arrival/Departure and Origin/Destination
- IFTA reporting
- HACCP/CARB Compliance

...Leads to higher customer confidence in freight service

THE APPLICATION

ReeferTrak® is the most powerful, wireless refrigeration operation management tool available for the freight transportation industry. The system allows immediate fleet visibility of every type of reefer operation, including reefer temperature monitoring, modes of operation, fuel management, trailer delivery, logistics and dwell time, engine hours and usage, and human interaction for each trailer. Using intelligent management of reefer specific data, exceptions are quickly identified and remote commands solve problems in minutes without the need for field intervention.

| Reefer # | Command | Cmd | Cmd Status | Send Time | Command ID |
|----------|-------------------------|-----|----------------------------------------|------------------|------------|
| RS4213 | Reefer Status Poll | ▶ | Ack Received | 09-29-2006 10:30 | 252 |
| RS4219 | Reefer Status Poll | ▶ | Ack Received | 09-29-2006 10:30 | 251 |
| RS4236 | Reefer Status Poll | ▶ | Ack Received | 09-29-2006 10:30 | 250 |
| RS4211 | Reefer Status Poll | ▶ | Ack Received | 09-29-2006 10:30 | 249 |
| RS4264 | Reefer Status Poll | ▶ | Command Sent | 09-29-2006 10:30 | 248 |
| RS4236 | Reefer Status Poll | ▶ | Ack Received, No Msg Response Received | 09-29-2006 08:18 | 242 |
| RS4264 | Reefer Status Poll | ▶ | Ack Received, No Msg Response Received | 09-29-2006 08:18 | 241 |
| RS4219 | Reefer Status Poll | ▶ | Ack Received, No Msg Response Received | 09-29-2006 08:18 | 240 |
| RS4211 | Reefer Status Poll | ▶ | Ack Received, No Msg Response Received | 09-29-2006 08:18 | 238 |
| RS4213 | Reefer Maintenance Poll | ▶ | Ack Received, No Msg Response Received | 09-29-2006 08:17 | 237 |

StarTrak's powerful application delivers reefer management solutions via an integrated web application, supplemented with one and two-way data feeds as well as integrated web applications with customer shipment planning information.



Wireless command & control for improved supply chain management

FROM THE REFRIGERATION TRANSPORT UNIT

ReeferTrak® Sentry includes intelligent, power-efficient equipment integration with the reefer microprocessor and provides a two-way cellular data link to StarTrak's comprehensive reefer application. Most Carrier Transicold and Thermo King microprocessors are supported with a two-way interface that delivers real-time operational reefer status within minutes from anywhere in North America. Low power operation allows for continuous two-way operation without degradation of the reefer battery even when the reefer unit is shutdown and un-tethered from the tractor. Its small, compact size means easy installation. Standard reefer alarms are sent to the user via the Internet, email or SMS within minutes. Command capability allows remote changes to temperature set point, operating conditions or parameters within minutes. Sentry is the most powerful and comprehensive solution offered in the refrigerated transport industry at an extremely affordable value.

THE ADVANTAGES

ReeferTrak® is a comprehensive refrigerated transport management tool that monitors thousands of un-manned reefer assets throughout the world. Using a unique interface to the reefer microprocessor, comprehensive fuel management algorithms and a focused, exception-based reefer application, freight operators utilize the complete operational context of every trailer to achieve revolutionary cost and quality improvements in their operations. Allow your customers to gain more confidence in your refrigerated freight service operation with the ReeferTrak® family of products: ReeferTrak Scout, ReeferTrak Sentry and ReeferTrak Commander.

ReeferTrak® Scout

ReeferTrak Scout is a part of StarTrak's comprehensive line of reefer monitoring and control products. Scout stores micro and GPS data and downloads it into a contemporary radio frequency network via base stations located at customer's facilities. While in range of the base station (nominally 2 miles), the network supports two-way command and control communications within seconds. Downloads are available using the Internet. The service permits significant operational, fuel and quality savings.

ReeferTrak® Commander

Commander provides real-time, full-authority monitoring and control of reefers (rail, truck, or trailer) with complete coverage throughout North America, Europe and Australia.



All ReeferTrak® products are configurable with all reefer types. Call StarTrak today to receive the most contemporary solution for your refrigerated transport needs.

Specifications – ReeferTrak® Sentry

Direct Interface to the following refrigeration transport unit microprocessors:

- Carrier Transicold Standard and Advance
- Carrier Transicold Summit and Summit Multi-temp
- Thermo King SR2
- Thermo King μ PV, μ PVI, (limited versions of μ PIV)
- Thermo King Spectrum Multi-temp

Reefer Monitoring & Control Functions

Monitors all available microprocessor alarms (255 maximum per micro)

Critical Shutdown Alarms – 36 default, plus other configurable shutdown alarms

Operational Functions:

- Change Set Point
- Reports On/Off Events
- Reports Shutdown Events
- Change Mode of Operation (Continuous, Start-Stop, Econoshield)
- Change Controlling Sensor
- Clear Alarms
- Pre-Trip
- Preventative Maintenance Settings
- Integrated Intellisets (Carrier)
- Automatic Fresh Air Exchange (Carrier)
- Remote configuration parameters

Other Functions

- Fuel (gallons, rapid fuel loss, refueled, low fuel, very low fuel)
- Hook/Unhook, door, remote temperature probes (qty 3)
- Geofences (1,000 locations per fleet)

Communication Functions

- GSM/GPRS digital networks
- Single or dual mode

Qualification Testing

- -40°C to +85°C range, shock, vibration, temperature-humidity, storage, water (rain, power, wash), electrical surge, salt/fog, ESD, EMC, RFI

STARTRAK

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