REFCON 6 Quick Introduction





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Customer Benefits



Improved cargo quality Alerts you of problems before potential cargo damage



Improved documentation

Records reefer container data and generates reports automatically



Reduced operational costs Eliminates time-consuming manual inspections



Reduced human errors Verifies planning parameters and alerts you of any mismatch



Improved personnel safety Minimizes time spent in reefer areas or bays



Energy savings & CO₂ reductions Minimizes cargo loss in cold supply chain and makes overall processes and operations more efficient







To have the full benefits of your REFCON system, it is very important that the highest possible number of reefer containers are communicating on the PCT (Power Cable Transmission).

To achieve this, the electronics – modem, controller etc – on every single container must be maintained, so you have a perfect communication path.

Check the Performance Bar and related lists in REFCON for containers not communicating correctly.

-Good advice

Check the maintenance and repair aggrements with the reefer owners, so you know for whom you can replace defective modems. Also check that you have sufficient spare modems in stock.

Benefits

How does it

work

How to

use

Communication path

Components in a REFCON system



Typical Terminal layout



REFCON 6 overview



You can design exactly which views you want to see and how they are placed. Many users choose to have the Alarm Summary and the Container Plan open side by side.

The Performance Bar

- •The Performance bar helps you to handle the monitoring of containers in custody.
- •Ideally you reach 100% monitoring and no alarms, in which case you will be granted a smiley.
- •REFCON advice which containers do have a modem available, but needs some maintenance
- In case of critical system alarms, which makes the REFCON not able to monitor at all, you will see a large red alarm block instead



It is always possible to achieve the 100% monitoring, by the means of the RDC, so use the handheld to collect data from non-communicating containers

Performance Bar

Where is your

Create a user

System Devices list



REFCON User Help

- •You find the User Help in the menu
- Here you also find a print-friendly PDF version under Documentation
- Or you simply press (F1)
- Or you select the question mark in the upper right corner of any active window





Tools

File

Overview
Performance Bar
-
Where is your hardware
-
On-line Help
Create a user
-
Planning System
-
Alarm handling
Container Plan
-
Container List
-
Historic logs
-
Printing
RDC /Logman
Global Monitoring Server
-
Updates
-
Support

User administration and password system



You need to setup at least one user: (Admin password required, please look in the manual)

Close

There are four standard roles:

Administrator

- AlarmAcknowledge
- ReeferTechnicianDaily

User Role setup ...

- REFCONsetup
- AllRightsRole

(only rights to acknowledge alarms) (rights to all daily routines) (rights to make changes to setup) (have rights to all actions in REFCON)

Performance Bar Where is your Create a user Planning System **Container Plan** Container List Global Monitoring

Planning System Communication Interface



The basic idea of the Planning System Communication Interface is to automatically keep data updated on both systems (REFCON and the Terminal Operating System):

REFCON typically receives	Planning System typically receives
Container ID, expected setpoint, physical location on terminal, plug/unplug information	Actual setpoint, supply and return temperatures and alarms

LAN connection and protocol settings are done in the REFCON setup.	Automatic Cleaning Up Alarm Options Data Obsoletion Logging Planning Data Import Planning System Interface GMS Clock Security Enable Planning System interface Configuration Main PC folder for log files: c:\refront@DataEngine\Terminal logFiles Rowsee Keep log files for 5 🗠 days
	Communication Options Use time based transmission of reefer data My IP address: 10.31.10.9 • Advanced options My Port number: 1002
	OK <u>C</u> ancel <u>Apply</u>

Performance Bar Where is your hardware Create a user Planning System J Container Plan Container List ➡ Printing **Global Monitoring**

Alarm Summaries



Container Plan



When moving the mouse over each container, you will see a tool tip, which gives the most important information about this container

Using the Container Lists



Historic Container Logs



Hereafter you can print or export as .PDF or .XLS file

Good advice

Historic container logs are per default kept for 36 months. You can change the setting in REFCON setup (password protected)



How to print



In the preview window you can select between a lot of output formats, such as local printer, .PDF file, .csv file or .xls file

RDC+ / LogMan

One handheld device - two funtions



LogMan II - Interfaces to LogView

- Download/retrieval and transferring of logs to computer for subsequent analysis and/or storage using the LogView software
- Set-up of container data such as container ID, date and time, trip start date, etc.
- Update of controller firmware in reefer containers
- Compatible with Thermo King, Carrier, Daikin, Mitsubishi and Starcool containers



RDC+ Interfaces to REFCON



Monitor the containers which do not communicate via powerline

- The RDC shows you the list of non-communicating containers in a convenient walk-route
- The container ID, location and temperature setpoints are transferred to the RDC for easy verification.
- It is possible to type in setpoint, supply and return temp, comments and alarms, and many other measures for documentation purposes

-Good advice

By using the RDC in combination with your REFCON system, you have full documentation of the containers in your custody – the same data are also transferred to the Global Monitoring Server



END-TO-END CONTAINER COMMUNICATION



Is your Terminal connected ?

- Check if REFCON data shall be transmitted to Global Monitoring Server
- REFCON GMS hourly log files must be transfered from folder C:\GMSLogif
- Data are sent via a seperate program GMS LogIF



Updates

All REFCON systems are delivered with 1 year free upgrade

Provided your REFCON system is on-line to the Internet, the system will automatically notify when updates are available

What to do

- 1. REFCON Monitor will notify that an update is available
- 2. Open REFCON Manager (Supervision tab) and stop REFCON
- 3. Select "Updates" tab
- 4. Select "Check for update now"





Performance Bar

Where is your

Good advice

With the Premium Support agreement you have free access to all updates. By keeping your REFCON updated, you are sure that all new reefer container alarms are correctly displayed in the REFCON system.

You can contact us in the following ways:			
Homepage:	www.EmersonClimate.com/TransportationSolutions		
E-mail:	TS.support@emerson.com		
Phone:	+45 70 23 44 44	(Opening hours 0800-1600 (UTC+1))	

Good advice

At any contact to our support department, please have following information ready; Terminal name and REFCON software version.

Performance Bar ₽ Where is your hardware Create a user ₽ Planning System ➡ ₽ Container Plan ➡ ➡ Global Monitoring Support