

RTE delivered the industry's first Remote Reefer Monitoring system in 1985. Since that time, RTE's GRASP™ system has remained technologically generations ahead of our competition while being recognized as the most functionally complete, user friendly system available today. GRASP™ is the only system that meets all of the ISO 10368 specifications including simultaneous Wide Band and Narrow Band communication.

RTE is a world leader in the development and supply of Remote Reefer Monitoring systems and components. Our GRASP™ reefer monitoring system is the most advanced system available in the market. RTE is also the leader in the repair and refurbishment of electronic controllers including Thermo King, Carrier, Sabroe, Mitsubishi, and others.

GRASP™

RTE REFRIGERATED
TRANSPORT
ELECTRONICS

Rebuilding the past. Developing the future.



GRASP REMOTE REFRIGERATION MAINTENANCE

Files and Reports Trip Records Tools Maintenance View System Window

ACTIVE CONTAINER LIST

BO-2442	CONTAINER	RET	SUP	SET	MODE
1	GE S1986395-8	-18.1	-20.6	-17.8C	LOW
2	MWCU564596-5	-14.8	-20.0	-13.8C	LOFN
3	MWCU866179-3	-23.2	-24.1	-25.8C	FULL
4	MWCU866993-7	-19.8	-22.0	-20.8C	FULL
5	MWCU810095-4	-18.3	-23.3	-17.8C	FULL
6	MWCU815320-8	4.8	3.3	3.3C	LOW
7	MWCU822773-8	15.8	15.0	15.8C	LOW
8	MWCU825490-2	6.3	5.0	5.0C	LOW
9	MWCU855741-0	-18.8	-17.0	-17.8C	LOW
10	MWCU856273-6	-25.8	-29.0	-25.8C	FULL
11	MWCU858090-0	-24.8	-28.0	-25.8C	FULL
12	MWCU831053-9	1.8	0.0	0.8C	LOW
13	MWCU831792-9	0.6	0.0	0.8C	LOW
14	DOMU286603-8	14.8	14.0	14.8C	LOFN



REEFER MONITORING SYSTEM

ISO 10368 DUAL DATA RATE
POWER CABLE TRANSMISSION (PCT)

MASTER MODEMS

SLAVE MODEMS

TERMINAL EQUIPMENT

VESSEL EQUIPMENT

SITE SURVEYS

CONSULTATION & TRAINING

RTE REFRIGERATED
TRANSPORT
ELECTRONICS

Rebuilding the past. Developing the future.

Refrigerated Transport Electronics, Inc.

1 West Center Street
McGraw, New York 13101 USA

Phone: (607) 836-8954 • (877) 538-7764 • Fax: (607) 836-8956

e-mail: sales@rtelectronics.com
www.rtelectronics.com



The GRASP™ Reefer Container Monitoring System enables just one operator at a centrally located computer to monitor an entire container terminal or vessel. The system allows two way communication of data between the operator and every reefer container. The GRASP™ system records all required data in a detailed log and a complete history for each reefer is available. If the system recognizes any problems an alarm is signalled.

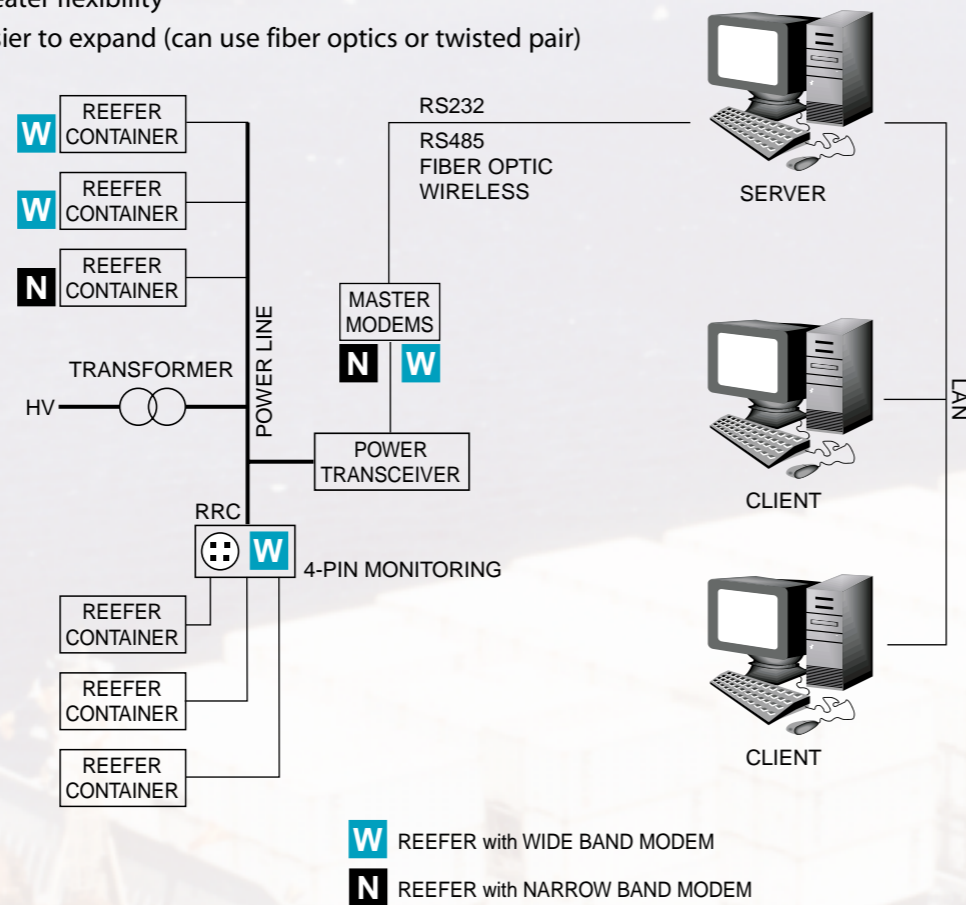
Container location, temperature parameters and other information concerning each reefer container can be transferred from the vessel's central computer to the terminal's computer adding greatly to the efficiency of the operation.

Installing the GRASP™ System on a ship or in a terminal will ensure that refrigerated products are monitored carefully and complying with the shipper's specifications.

THE GRASP ADVANTAGE

GRASP™ is designed with a single master modem utilizing true simultaneous communication as per ISO Standards. This results in the following advantages when compared to similar systems available from other vendors:

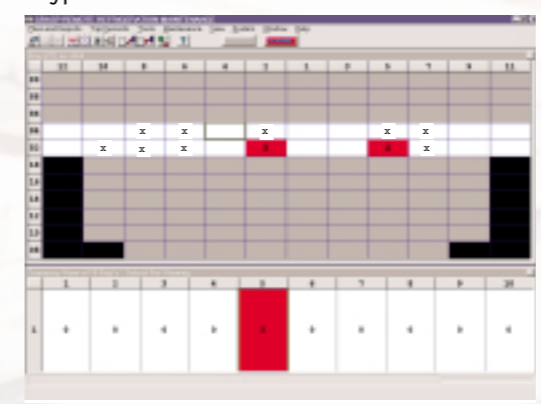
- Uses less hardware
- Easier to install
- Easier to maintain
- Quicker response times
- Greater flexibility
- Easier to expand (can use fiber optics or twisted pair)



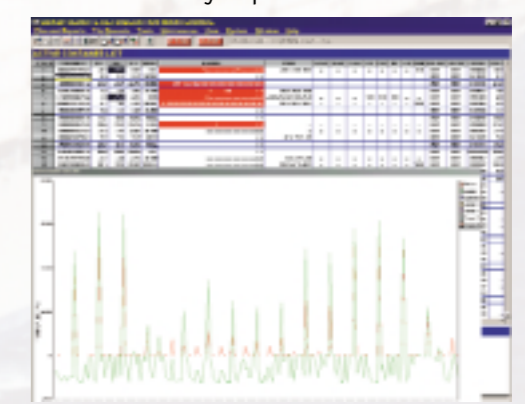
Click click to print net list.

00:24:42	CONTAINER	RET	SUP	SET	MODE	ALARMS	PRETRP	RECRD	LOCATE	GSET	DEST
1	GESUP06395-6	-18.1	-20.6	-17.8C	LOW-		RDY	RDY	XXXXXXXX	50.0	XXXXXX
2	MVVCU564596-5	-14.0	-20.0	-13.9C	LOFN		RDY	RDY	XXXXXXXX	50.0	XXXXXX
3	MVVCU608179-3	-23.2	-24.1	-25.0C	FULL	-SE--O--(-)	RDY	RDY	XXXXXXXX	50.0	XXXXXX

Bayplan View



Container History Report



THE GRASP FEATURES

- Supervision of Temperatures, incl. USDA
- Up/Download of trip records
- Print trip records
- Defrost command
- Interface to loading and host computers
- Simple operation
- Improved safety on board ships
- Cost effective remote PTI
- Trip records manager
- Setpoint change
- Header entry
- Simple and affordable installation
- Cost savings
- Simultaneous communication

GRASP™ is compatible with refrigeration equipment manufacturers such as Mitsubishi Heavy Industries, Carrier Transicold, Thermo King Corporation, Klinge Corporation, Daikin and Sabroe.

GRASP RELATED PRODUCTS AVAILABLE FROM RTE



RTE is the only manufacturer of powerline modems to meet both technologies specified by the ISO 10368 standard, thus allowing customers to have a choice to mix and match technologies based on their requirements.

The Remote Communication Device (RCD) is an important component in a Remote Reefer Monitoring system. The RCD provides the interface between the monitoring system and the actual reefer unit. The RCD allows the user to monitor the operating condition of the reefer, change the operating parameters, and retrieve historical data. Contact RTE for other GRASP™ related products.