

GRASP™

# WRAD™



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 offers a complete solution including system, modems, custom software, and installation.

RTE is also the leader in the repair and refurbishment of electronic controllers including Thermo King, Carrier, Sabroe, Mitsubishi, and others.

The RTE WRAD™ Wireless Reefer Acquisition Device is the latest addition to RTE's GRASP™ Remote Reefer Monitoring system product family.

WRAD™ is a wireless option that allows remote monitoring and control of reefer units. WRAD™ can be used as a stand alone system or in conjunction with RTE GRASP powerline monitoring system. WRAD comes as either a battery powered removable device or can be permanently installed in the reefer unit. WRAD™ requires minimal hardware infrastructure and therefore suitable for small depots and vessels in addition to large terminals.

The user software is WEB based allowing remote users to monitor critical cargos. Built in XML interface allows for easy data access to 3rd party systems.

WRAD™ technology is based on the IEEE 802.15.4 standard using MESH networking.

WRAD™ is compatible with all reefer types.



**Rebuilding the past. Developing the future.**  
877.538.7764 (Toll Free)

**RTE's WRAD™ Data Acquisition System allows the user to :**

- Collect operating parameters via the reefer DataPort or Modem port.
- Allows 2-way communication for monitoring and control.
- Download temperature and event records.
- Temporary or permanent installation.
- Minimal infrastructure required.
- Change reefer parameters such as:
  - Setpoint
  - Defrost Interval
  - In-Range Parameters
  - Shut Down Mode

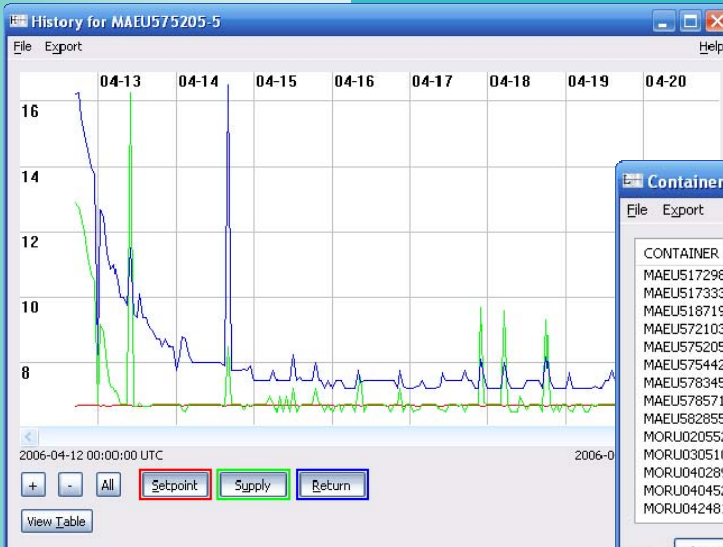
**Specifications:**

- WEB Based User Interface.
- Conforms to IEEE 802.15.4 Standard.
- IP 67 Enclosure
- 30 Day Operation before recharging.
- XML interface and SQL database

**Container History**

DATE - TIME	RET	SLP	SET	ALARMS	LOC	GSET	DEST	ORIG	TYPE
2006-04-12 17:00:00	16.20	12.89	6.69	AAAAAAAA					
2006-04-12 18:00:00	16.25	12.75	6.70	AAAAIAAA					
2006-04-12 19:00:00	15.50	12.50	6.70	AAAAIAAA					
2006-04-12 20:00:00	15.00	12.00	6.70	AAAAIAAA					
2006-04-12 21:00:00	14.50	11.25	6.70	AAAAIAAA					
2006-04-12 22:00:00	14.00	10.75	6.70	AAAAIAAA					
2006-04-12 23:00:00	13.75	10.50	6.70	AAAAIAAA					
2006-04-13 00:00:00	8.25	6.75	6.70	AAAAIAAA					
2006-04-13 01:00:00	12.69	9.19	6.69	AAAAAAAA					
2006-04-13 02:00:00	12.50	9.00	6.70	AAAAIAAA					
2006-04-13 03:00:00	11.39	7.90	6.69	AAAAAAAA					
2006-04-13 04:00:00	10.89	7.30	6.69	AAAAAAAA					
2006-04-13 05:00:00	11.00	7.25	6.70	AAAAIAAA					

**Graphical display of temperature**



**Container Net List**

CONTAINER	RET	SUP	SET	ALARMS	LOC	GSET	DEST	ORIG	TYPE	DATE - TIME
MAEU517298-8	1.20	0.00	0.00	AAAAAAAA	C510E	0.00	HNPCR	PAMIT	18	2006-04-20 15:33:00
MAEU517333-0	18.79	3.79	0.00	AAAAAAAA	E305D	0.00	GPPTP	PAMIT	18	2006-04-20 15:34:53
MAEU518719-1	1.00	0.00	0.00	AAAAAAAA	C510D	0.00	HNPCR	PAMIT	18	2006-04-21 13:28:00
MAEU572103-3	-17.00	-18.00	-18.00	AAAAIAAA	D405C	-17.80	USMIA	PAMIT	4	2006-04-20 15:31:54
MAEU575205-5	7.50	6.75	6.70	AAAAIAAA	D405B	6.70	USMIA	PAMIT	4	2006-04-20 15:31:59
MAEU575442-2	-20.00	-22.00	-20.00	AAAAIAAA	E514A	-20.00	JPUKB	PAMIT	4	2006-04-20 17:19:00
MAEU578345-7	7.50	6.75	6.70	AAAAIAAA	YARD	6.70	USMIA	PAMIT	4	2006-04-20 15:32:43
MAEU578571-6	10.75	10.00	10.00	AAAAIAAA	E305D	10.00	GPPTP	PAMIT	4	2006-04-20 15:34:38
MAEU582855-1	-20.00	-20.00	-20.00	AAAAIAAA	E510D	-20.00	ESALG	PAMIT	4	2006-04-20 15:32:47
MORU020552-2	16.75	16.00	16.00	AAAAIAAA	F405C	16.00	KRPUS	PAMIT	4	2006-04-20 15:32:01
MORU030510-0	17.31	16.87	17.00	AAAAAAAA	C510B	17.00	BRMAO	PAMIT	5	2006-04-21 05:58:01
MORU040289-8	10.75	10.00	10.00	AAAAIAAA	C510A	10.00	BRMAO	PAMIT	4	2006-04-21 04:15:00
MORU040452-4	10.75	10.00	10.00	AAAAIAAA	C510C	10.00	BRMAO	PAMIT	4	2006-04-21 05:57:01
MORU042481-3	7.50	7.12	7.00	AAAAAAAA	G305A	7.00	BRMAO	PAMIT	5	2006-04-21 02:28:02



**Refrigerated Transport Electronics, Inc.**  
 1 West Center St., McGraw, New York 13101 USA  
 Phone :+1 (607) 836-8954 Fax: +1 (607) 836-8954  
 E-mail: sales@rtelectronics.com