

WRAD™

Reefer Monitoring Platform

DATASHEET

SIGNIFICANT FEATURES:

- Magnetically attaches to the container and connects via the data-port located on each reefer container
- Does not require reefer container to have PCT Slave Modem
- Uses wireless repeaters and Wifi or LAN connection to connect RTE's GRASP system
- Ideal for smaller terminals, depots, and 3rd party clients
- Wireless monitoring option for reefer containers
- Simple infrastructure required, compatible with all reefer types
- Battery powered and rechargeable- up to 6 months battery (dependent on usage)
- Operational / Status LEDs
- Conforms to IEEE 802.15.4 Standard
- IP 66 Enclosure
- 30-Day Operation before recharging
- XML interface and SQL database



RTE offers the Refrigerated Shipping Industry the most complete and comprehensive line-up of Remote Reefer Monitoring Solutions available.

As part of the RRCE Family, WRAD is based on a Hardware/Software platform that provides a common interface to controllers from different manufacturers.

WRAD, in conjunction with RTE's GRASP 3.0 software, gives you the ability to monitor reefer containers in real-time with the following capabilities:

- Collection & Display of operating parameters- Temperature, CA Information, Power Information
- Clear text description of alarms using manufacturers code & text
- Downloads of: temperature, Events, Alarms, PTI, USDA logs, etc.
- Remote control of: Set-points, PTI, defrost, CA
- Graphical Bay/Yard View

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Wireless Reefer Acquisition Device

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SPECIFICATIONS:

WRAD

Dimensions:	3.571"L x 2.059W x 6.871"H (91mm x 52mm x 175mm)
Cable Length:	75.5" (1.92M)
Battery:	Li-Ion internal battery, 3.7Vdc, 2800mAH, charged through charging station
Enclosure:	Polycarbonate with UV stabilizer, IP 66 rating
Operating Temperature:	-20 to 60C
Storage Temperature:	(1 Month) -20 to 60C (3 Month) -20 to 45C (1 Year) -20 to 20C

Datasheet v2017-1



Wireless CCU

Dimensions*:	6.9"L x 4.46W x 14.886"H (175mm x 113mm x 378mm)
Input Voltage:	110/220/440VAC, 50-60Hz nominal
Enclosure:	Fiberglass, NEMA 4x water seal
Antenna Power:	4 dbi
Operating Frequency:	2.4 GHz

*Without optional Wifi antenna

Wireless Repeater

Dimensions:	6.90"L x 4.46W x 14.886"H (175mm x 113mm x 378mm)
Input Voltage:	110/220/440VAC, 50-60Hz nominal
Enclosure:	Fiberglass, NEMA 4x water seal
Antenna Power:	4 dbi
Operating Frequency:	2.4 GHz

SYSTEM COMPONENTS:

Wireless CCU - The wireless CCU provides an interface between WRAD devices and the GRASP server. It is the main access point for WRAD units and it generates an IEEE 802.15.4 wireless network, known as Zigbee, to establish connection between them. The wireless CCU can connect to the GRASP server via Ethernet (wires or Wifi), USB, RS232, or RS-485.

Wireless Repeaters - Used to extend the coverage of the wireless network. They communicate to the wireless CCU and the WRAD units.

GRASP 3.0 - Monitoring and control software

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