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

The PCT system, 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 - Temperatures, Events, Alarms, PTI, USDA logs, etc.
- Remote control of - Set-points, PTI, Defrost, CA, etc.
- Graphical Bay/Yard View

All reefer container information is electronically stored and can be retrieved in the event of a claim.

Key Features:

- Connects to PCT Modem on the reefer container
- Minimal equipment is installed at each transformer
- Ideal for terminals with a large percentage of modems
- Communicates by injecting high frequency signals on the power-line
- Allows user to monitor the operating condition of a reefer container
- Change the operating parameters
- Retrieve historical data
- 4-Pin Monitoring Solution
Powerline Cable Transmission

HARDWARE SPECIFICATIONS

Standard: System complies with ISO 10368 standard for Power Cable Transmission

Operating Frequency: 55KHz, +/-2.2% for Narrow Band; 140 to 400KHz for Wide Band

Typical Enclosure (NBCCU/Signal I/O and WBCCU/Signal I/O)

Dimensions: 12.0”L x 10.1”W x 6.4”H (305 mm x 257 mm x 163 mm)

Input Voltage: 220VAC or 440VAC, 50-60 Hz nominal, single phase and ground

Power Consumption: 50VA

Operating Temperature: -40 to 70°C (-40 to 158°F)

Storage Temperature: -50 to 100°C (-58 to 212°F)

Humidity: 95%

SYSTEM COMPONENTS

Central Communication Unit (CCU) - The CCU is the main electronic communication device (Master Modem), which processes all the signals being injected onto the 3-phase system. It will inject command signals, generated at the computer, onto the 3-phase and waits for a response. The CCU communicates to the GRASP 3.0 software via a data cable, which provides an RS-232A serial link. Other connection methods are available.

Signal I/O - Each signal I/O card provides for the distribution of signals to 4 remotely located device boards. Typically these are power transceiver cards at the signal insertion point. The signal I/O card contains circuitry for driving the communication and control signals over long twisted pair transmission lines.

CONNECTION OPTIONS

The CCU can be connected to the GRASP server via the following options:

- Direct Serial Connection RS-232A
- LAN Connection (RJ-45, Fiber Optic)
- Wireless Connection

* Different enclosures might be used and different components might be grouped in enclosures depending on system configuration

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