RRCE-PM™
Power Monitoring Platform

Significant Features:

- Revenue-grade meter
- Real-time power consumption and cost monitoring.
- Real-time monitoring of currents, voltage, power, power factor.

System Components:

3 Phase Power Meter - The power meter is permanently installed at the reefer rack to monitor power consumption of individual reefer containers. It is designed to function as a stand alone system or in conjunction with RTE’s Reefer Monitoring System.

3 Phase Meter Current Transformer (CT) - The Current Transformer is permanently installed at the power line. It connects directly to the 3 Phase Power Meter and the power line to be monitored.

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, RRCE-PM is based on a Hardware/Software platform. The RRCE-PM can be used as a stand alone power monitoring solution or used in conjunction with RTE’s Reefer Monitoring System. When used together, The GRASP™ system will provide the user with real-time reefer temperatures, alarms, and power consumption allowing the user full visibility into the operation and costs.
Remote Reefer Monitoring Engine- Power Monitoring

Specifications:

Operating Temp: -25 to 70 C (-13 to 158 F)
Storage Temp: -40 to 85 C (-40 to 185 F)
Humidity Range: <95% RH non-condensing
Input Voltage (max): 400Vac (L-N), 600Vac (L-L)
Aux Voltage: 100-415Vac; 100-300Vdc, 50/60hz
Burden: 10VA per meter (40VA total for plate)
Input Impedance: 2Mohm per phase
Metering Frequency: 45Hz~65Hz
PT Burden: <0.2VA
Current Input: Scaling: 5A to 32,767A
Input Range: 0 to .333V

Parameters Monitored:

- Voltage (Average, Aϕ, Bϕ, Cϕ)
- Line Volt (AB, BC, CA, Average Voltage LL)
- Amps (Total, A, B, C)
- Watts (Total, A, B, C)
- VA (Total, A, B, C)
- VAR (Total, A, B, C)
- PF (Average, A, B, C)
- Apparent Power
- Reactive Power
- Total Connection Time
- Power Usage
- Average On-Peak Cost
- Average Off-Peak Cost