

RRCE-PM™

Power Monitoring Platform

DATASHEET

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.

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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

