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RF Code Data Sheet

Wire-Free Network Monitoring

KEY FEATURES

- Ability to communicate power information via RF Code Sensor Tags

- Save on IP address costs with wire-free technology

- Provide power information per inlet (in-feed), phase or power outlet (device)

- Works in conjunction with RF Code's environmental and device monitoring/tracking ID tags

- Provides alerts if an over-current protection device has tripped or thresholds are exceeded

- Provides an alert upon any user initiated outlet status change (On/Off/Reboot)

- Redundancy-Provides power and environmental information simultaneously via wired network connection and via the RF Code wire free sensor

- Plug and Play Tag Installation

- Compatible with New PRO Series products

Integrated Power Information into RF Code's Wire-Free Monitoring System

Via an active RFID tag, power information and alarms can be sent by RF Code's wire-free monitoring system from Server Technology's cabinet power distribution units (PDUs). Power information includes per inlet (in-feed) power sensing (PIPS) and device level power information via per outlet power sensing (POPS) PDUs. Smart or Switched PDUs that have per inlet (in-feed), phase power sensing (PIPS) and with or without POPS are required for this solution. PDUs can be provided as all Master units or implemented in pairs as Master/Link units or multiple link units with one tag required per Master PDU.

Tags plug into the Master PDU's serial port and are automatically recognized upon installation, providing plug-and-play operation.

Wire-free monitoring greatly reduces the number of IP addresses and lowers installation costs while still providing reliable power monitoring information.

RFCODE

Link Cable

RF Code Transmitter

7' Serial Cable

Expansion PDU (Optional)
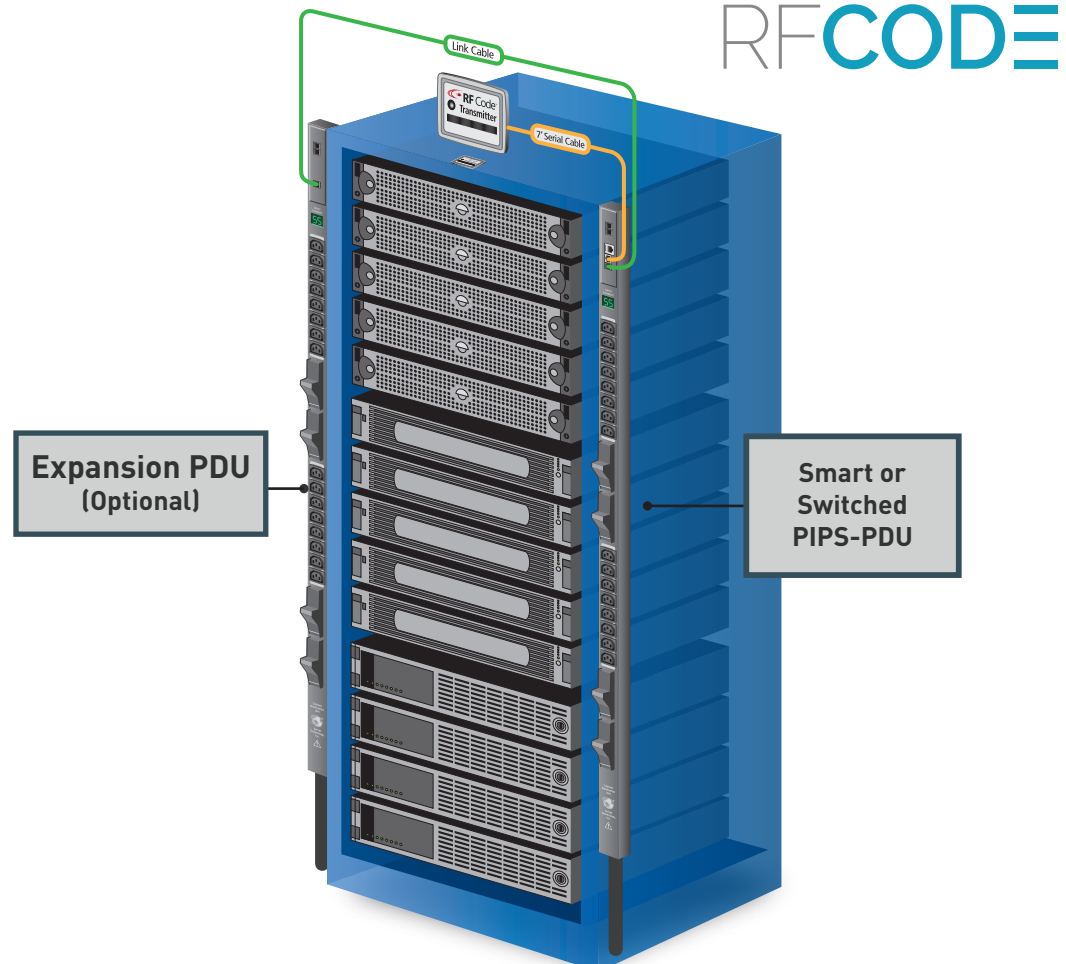
Smart or Switched PIPS-PDU

Power Distribution Units (PDUs) Supported:
• CDU1 and PRO 1/2 Series Products
• Smart PIPS PDUs with or without POPS
• Switched PIPS PDUs with or without POPS (no outlet control via wire-free)
• All master or master/link units

General Information Provided:
• PDU model number
• PDU serial number
• PDU is not communicating to the tag
• PDU loss of communications with master unit
• PDU loss of communications with link unit
• Lost packet information
• Whether the PDU is a master or link unit
• Whether the PDU is a PRO1 or PRO2 Series
• PDU Manufacture Date
• PDU Asset Tag
• PDU Firmware Version

Alarm Information Provided:
• Low tag battery
• Unit status
• Outlet status
• Over current protection device breaker/fuse is tripped and which in-feed/phase it is located on and whether it is the master or link unit
• High in-feed load (80% or more of capacity) and which in-feed/phase it is located on and whether it is the master or link unit
• Overloaded in-feed line and which in-feed it is located on and whether it is the master or link unit
• Branch Current Status
• Line Current Status
• Notification of user-initiated outlet status changes (On/Off/Reboot)

Power Information Provided:
• Per Phase Voltage (V)
• Per Phase Amperage (A)
• Per Phase Watts (W)
• Per Outlet Watt-Hours
• Per Outlet RMS Amperage
• Phase Watt-Hours
•In-feed RMS Amperage

Computed Attributes in RF Code Center Scape:
• Total Power of Phases in Watts
• Total Power of Phases in Volt-Amps (V-A)
• Total Power of Phases in Watt-Hours
• Total Power of Phases in V-A-Hours
• Time Stamp for Power Accumulators

For Each Phase:
• RMS Voltage Phase to Neutral in Volts
• RMS Voltage Line to Line in Volts
• Phase Configuration (L-L or L-N)
• Power per Phase in Watts
• Power Factor per Phase in Percent
• Power per phase in V-A
• Amperage per Phase in Amps
• Total Power in Watt-Hours
• Total Power in V-A-Hours
• Time Stamp for Power Accumulators
• Phase Status (on / off)

For Each Outlet:
• RMS Voltage per Outlet in Volts
• Phase Source per Outlet (L-L or L-N)
• Power per Outlet in Watts
• Power Factor in Percentage
• Power per Outlet in V-A
• Amperage per Outlet in Amps
• Total Power by Outlet in V-A-Hours
• Time Stamp for Power Accumulators
• Outlet State (On/Off)

For Each Line:
• Amperage per line in amps

For Each Branch:
• Amperage per Branch in Amps
• Total Count of OCPD/Branches

Power Reporting Intervals:
Per Phase Data
• 10 Mins for Master
• 20 Mins for Master/ up to 2 Links
• 30 Mins for Master/ 3 Links

Other data:
• 1 hour for Master
• 2 hours for Master/ up to 2 Links
• 3 hours for Master/ up to 3 Links
• Alarm Information Immediate

Tag Model Numbers:
• R170-0B02 Power Tags for CDU1 Series Products *(FW Version 6.0n or higher)*
• R170-0B07 Power Tags for PRO 2 Series Products *(FW Version 8.0m or higher)*

Note: Some PRO1 products do not provide OCPD status or branch current measurement information. Contact STI for PRO1 product support information

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