Wire-Free Power 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

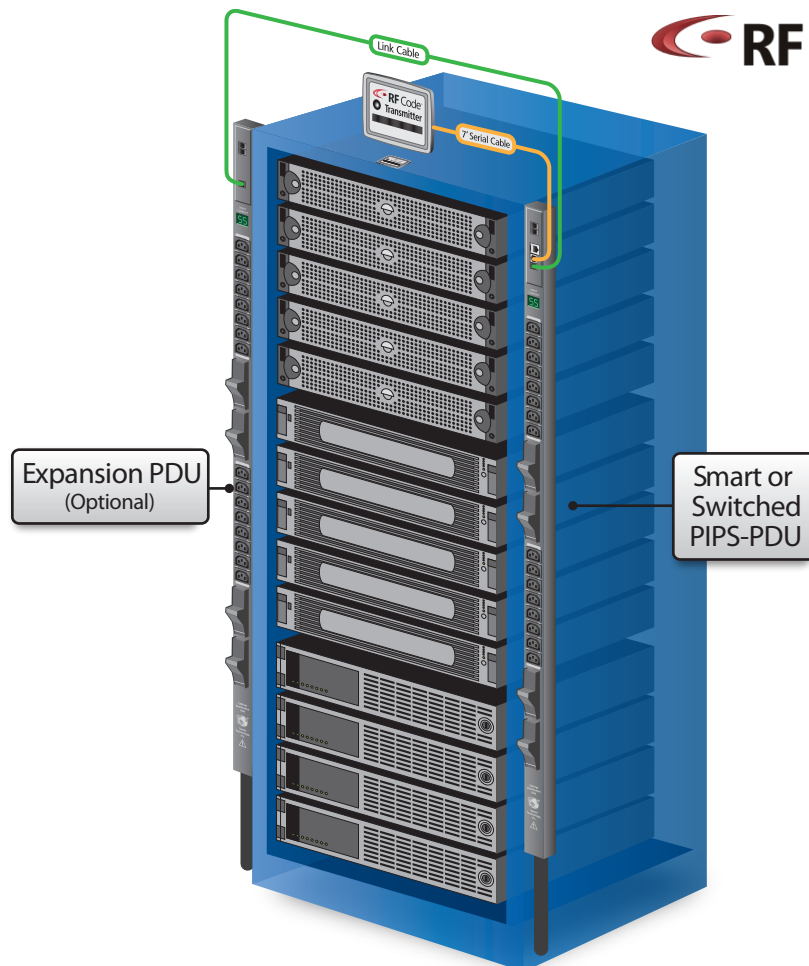## Integrated Power Information into RF Code's Wire-Free Monitoring System

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 (CDUs). Power information includes per inlet (in-feed) power sensing (PIPS) and device level power information via per outlet power sensing (POPS) CDUs. Smart or Switched CDUs that have per inlet (in-feed), phase power sensing (PIPS) and with or without POPS are required for this solution. CDUs can be provided as all Master units or implemented in pairs as Master/Link units with one tag required per Master CDU.

Tags plug into the Master CDU's serial port and are automatically recognized upon installation.

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

Technical Specifications

Cabinet Power Distribution Units (CDUs) Supported:
>Smart PIPS CDUs with or without POPS
>Switched PIPS CDUs with or without POPS (no outlet control via wire-free)
>All master or master/link units
>Requires FW version 6.0n or higher

General Information Provided:
>CDU model number
>CDU serial number
>CDU is not communicating to the tag
>CDU loss of communications with master unit
>CDU loss of communications with link unit
>Lost packet information
>Whether the CDU is a master or link unit

Alarm Information Provided:
>Low tag battery
>Over current protection device breaker/fuse is tripped and which in-feed/phase it is located on and whether it is the master or slave 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
>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 Sensor Manager:
>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

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

Power Reporting Intervals:
Per Phase Data
>10 minutes for Master/ 20 Minutes for Master/Link
Other data:
>1 hour for Master / 2 hours for Master/Link
>Alarm Information Immediate

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