

The Sentry Power Tower Family...



**Your Zero U
Solution for
Power Distribution,
Monitoring and
Management**

Sentry POWER TOWER FAMILY

Power Management Solutions for Your Data Center

Sentry Power Tower's advanced power management solutions for servers, routers and other high-density network equipment units save you time and money.

Reboot any or all of the servers in your equipment cabinet to increase productivity and reduce costs. Monitor the current draw on your power drop to improve planning and efficiency.



Flexible Solutions for Demanding Environments

Solutions for both lights-out and fully manned Web hosting facilities, POP sites and data centers.

Occupies Zero U of rack space.

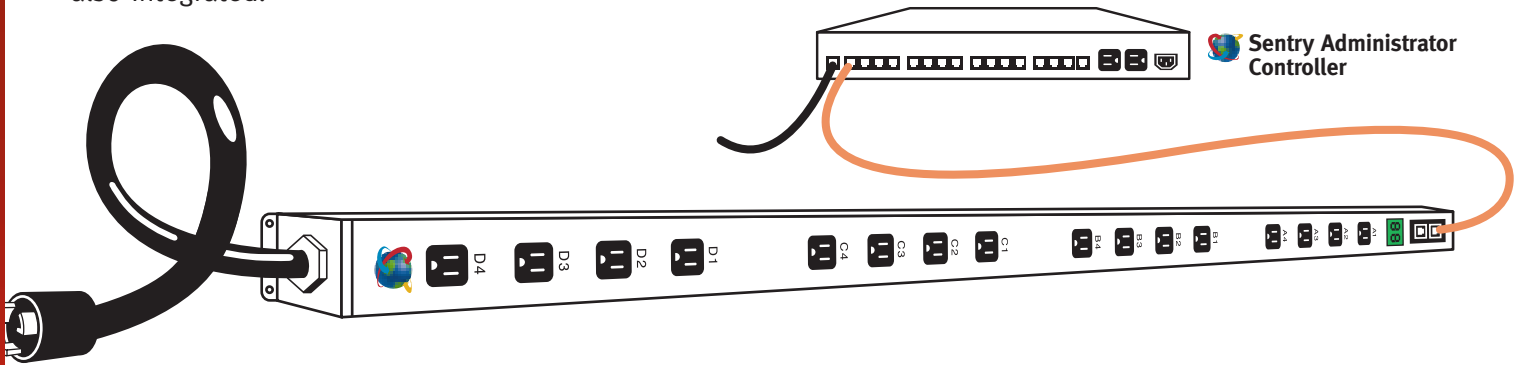
Proven break-even analysis of less than six months for Power Tower installations.



PTEF - Sentry Power Tower Expanded Function

The Power Tower Expanded Function model provides your Data Center all available advanced Power Management functions. Power Sequencing eliminates blown circuit breaker or tripped fuses caused by ‘power-inrush.’ Individual Receptacle On/Off control allows for remote reboot of any unit. SNMP traps alarm when current thresholds are exceeded. Advanced security and RS-232, HTML or Telnet access are also integrated.

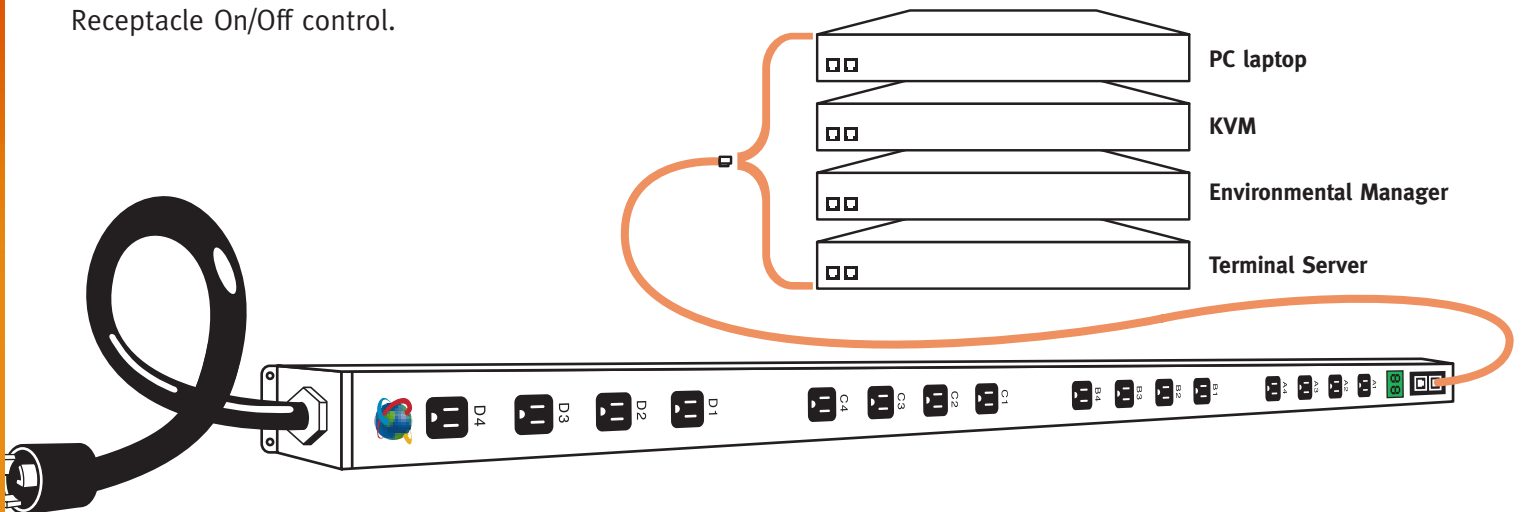
| Power Tower Feature | PTEF | PTSS | PTPDU | PTCM |
|-------------------------------|----------------------------|--------|--------|--------|
| Communications Access | RS-232, HTML, Telnet, SNMP | RS-232 | RS-232 | RS-232 |
| Power Distribution | x | x | x | - |
| Remote Current Monitor | x | x | x | x |
| Dynamic Current Monitor LED | x | x | x | x |
| Power-up Sequencing | x | x | - | - |
| Power Receptacles Control | x | x | - | - |
| Group Name Port Control | x | x | - | - |
| Username/Password per Port | x | x | - | - |
| On Sense | x | x | - | - |
| Configuration Upload/Download | x | x | - | - |
| Expanded Security | x | - | - | - |
| Local Current Monitor Alarm | - | - | x | x |



PTSS – Sentry Serial Power Tower

The Sentry Serial Power Tower model allows this unit to be interfaced to any device with a bi-directional serial port. The Serial Power Tower is complimentary to devices such as Terminal Servers, Environmental Control Units, PCs, and KVM Switches. The Sentry Serial Power Tower provides your Data Center advanced Power Control functions such as Power Sequencing, which eliminates blown circuit breaker problems caused by ‘power-in-rush,’ and individual Receptacle On/Off control.

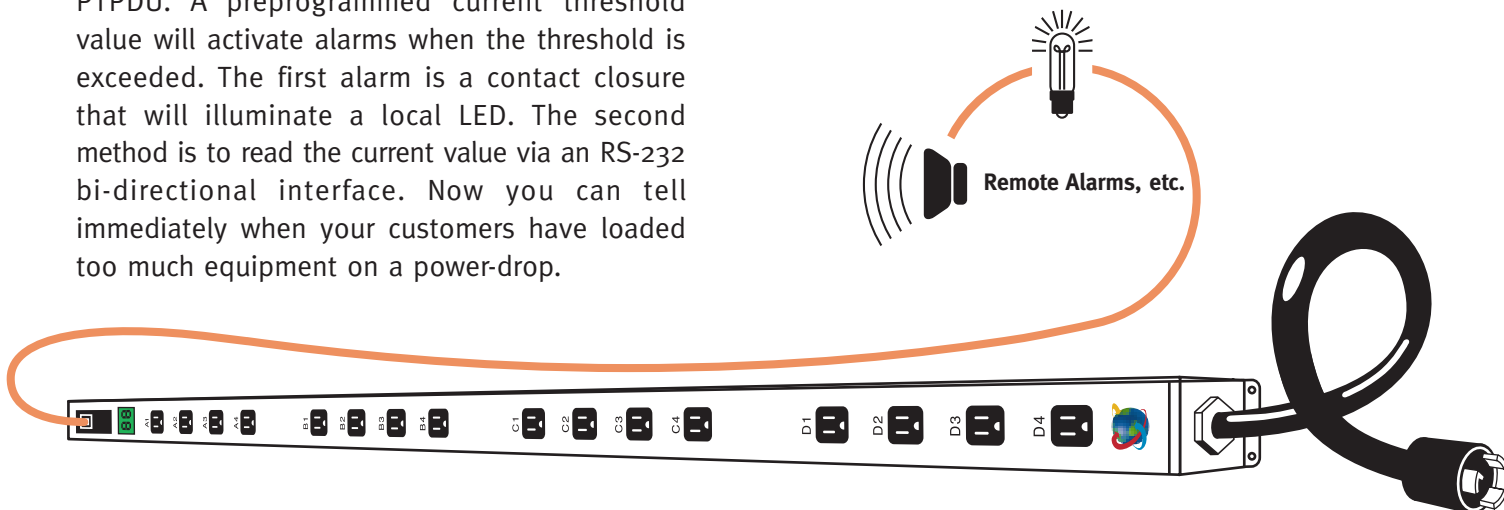
| Power Tower Feature | PTEF | PTSS | PTPDU | PTCM |
|-------------------------------|----------------------------|--------|--------|--------|
| Communications Access | RS-232, HTML, Telnet, SNMP | RS-232 | RS-232 | RS-232 |
| Power Distribution | x | x | x | - |
| Remote Current Monitor | x | x | x | x |
| Dynamic Current Monitor LED | x | x | x | x |
| Power-up Sequencing | x | x | - | - |
| Power Receptacles Control | x | x | - | - |
| Group Name Port Control | x | x | - | - |
| Username/Password per Port | x | x | - | - |
| On Sense | x | x | - | - |
| Configuration Upload/Download | x | x | - | - |
| Expanded Security | x | - | - | - |
| Local Current Monitor Alarm | - | - | x | x |



PTPDU – Power Tower PDU

The Power Tower PDU is a low-cost solution to both Power Distribution and Current Monitoring in a 24/7 manned data center. The 8 or 16 receptacle configuration fulfills your power distribution needs. The Current Monitor feature provides a two position LED display on the front plate to allow your engineers to see exactly how much current is being used by the PTPDU. A preprogrammed current threshold value will activate alarms when the threshold is exceeded. The first alarm is a contact closure that will illuminate a local LED. The second method is to read the current value via an RS-232 bi-directional interface. Now you can tell immediately when your customers have loaded too much equipment on a power-drop.

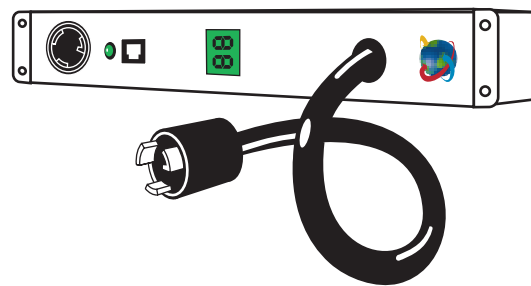
| Power Tower Feature | PTEF | PTSS | PTPDU | PTCM |
|-------------------------------|----------------------------|--------|--------|--------|
| Communications Access | RS-232, HTML, Telnet, SNMP | RS-232 | RS-232 | RS-232 |
| Power Distribution | X | X | X | - |
| Remote Current Monitor | X | X | X | X |
| Dynamic Current Monitor LED | X | X | X | X |
| Power-up Sequencing | X | X | - | - |
| Power Receptacles Control | X | X | - | - |
| Group Name Port Control | X | X | - | - |
| Username/Password per Port | X | X | - | - |
| On Sense | X | X | - | - |
| Configuration Upload/Download | X | X | - | - |
| Expanded Security | X | - | - | - |
| Local Current Monitor Alarm | - | - | X | X |



PTCM – Power Tower Current Monitor

Your equipment cabinets have power distribution (PDU) outlet strips already installed. However, the circuit breakers blow because too much equipment is installed on a power-drop. The Power Tower Current Monitor is an in-line, low-cost, easy to install solution to this problem. The Current Monitor feature provides a two-position LED display on the front plate to allow your engineers to see exactly how much current is being used by the PDU. A preprogrammed current threshold value will activate alarms when the threshold is exceeded. The first alarm is a contact closure that will illuminate a local LED. The second method is to read the current value via an RS-232 bi-directional interface. Now you can tell immediately when your customers have loaded too much equipment on a power-drop.

| Power Tower Feature | PTEF | PTSS | PTPDU | PTCM |
|-------------------------------|----------------------------|--------|--------|--------|
| Communications Access | RS-232, HTML, Telnet, SNMP | RS-232 | RS-232 | RS-232 |
| Power Distribution | X | X | X | - |
| Remote Current Monitor | X | X | X | X |
| Dynamic Current Monitor LED | X | X | X | X |
| Power-up Sequencing | X | X | - | - |
| Power Receptacles Control | X | X | - | - |
| Group Name Port Control | X | X | - | - |
| Username/Password per Port | X | X | - | - |
| On Sense | X | X | - | - |
| Configuration Upload/Download | X | X | - | - |
| Expanded Security | X | - | - | - |
| Local Current Monitor Alarm | - | - | X | X |



Communications Access Modes... Management of all the Power Towers' features via in-band, 10-BaseT Ethernet for IP Telnet, HTML & SNMP management, and out-of-band, RS-232C for serial or modem management. (Model dependent).

Distribution... A 15, 20 or 30 Amp power input feed distributed across 8 or 16 power output receptacles to the equipment in your relay rack or equipment cabinet.

Current Monitor... Precisely measures and reports the current draw in Amps that your devices are pulling across the Power Tower's power circuit. This value can be viewed remotely via the Power Tower's communications access modes.

Dynamic Current Monitor LED... A two-position LED digital display on the front plate to allow local verification of the current being drawn by the Power Tower.

Power-up Sequencing... Prevents an in-rush power overload. When power is suspended and restored to the Power Tower, the 16 power output receptacles power-on in two or four-second intervals. An LED indicator at each power outlet signifies the status of the receptacle.

Power Receptacle Control... Remote Power Management to reboot locked-up network devices and restore them to an operational state. Remotely power on/off or reboot any receptacle via the Power Tower's communications access modes.

Group Name Port Control... Each of the power output receptacles can be individually managed (Power On, Power Off or Reboot) or power outlets can be logically grouped and controlled by one command. Redundant power supply network equipment units can be managed by two Power Towers with one group command.

Username/Password per Port... Assign multiple users limited access rights to access and manage individual or specific power output receptacles.

On Sense... Verifies that voltage is available at each power output receptacle. Generates an SNMP trap sent to a management destination to alarm when voltage is not available.

Configuration Upload/Download... Allows specific names and values to be configured for each receptacle and uploads (saves) and downloads (restores) these settings from a management station.

Expanded Security... In addition to administrator and guest username/password combinations, the Power Tower supports SecurID, TACACS, encrypted Telnet and password-per-port security.

Local Current Monitor Alarm... For Power Tower models that do not include communications access modes from remote management, the local alarm is a contact closure that activates a local LED when a predefined threshold is exceeded.

Key to reading item #s

| | | |
|------------------------------|-----------|---|
| First two letters: | PTEF-o8-1 | Identifies Power Tower model |
| Remaining letters: | PTEF-o8-1 | Relates to Product Description ie.(Expanded Function) |
| First numeric digits: | PTCM-o1-1 | Qty (1) power outlet receptacle |
| | PTEF-o8-1 | Qty (8) power outlet receptacles |
| | PTEF-16-1 | Qty (16) power outlet receptacles |
| Last numeric digit: | PTEF-o8-1 | 110 VAC |
| | PTEF-o8-2 | 230 VAC |

Sentry Power Tower Family Configuration Chart

| Description | Item# |
|---|-------------|
| Sentry Expanded Function Power Tower | PTEF-o8-1 |
| | PTEF-16-1 |
| | PTEF-o8-2 |
| | PTEF-16-2 |
| Sentry Serial Power Tower | PTSS-o8-1 |
| | PTSS-16-1 |
| | PTSS-o8-2 |
| | PTSS-16-2 |
| Sentry Current Monitor Power Tower | PTCM-o1-1 |
| | PTCM-o1-2 |
| Sentry Power Tower PDU | PTPDUC-o8-1 |
| | PTPDUC-16-1 |
| | PTPDUC-o8-2 |
| | PTPDUC-16-2 |