

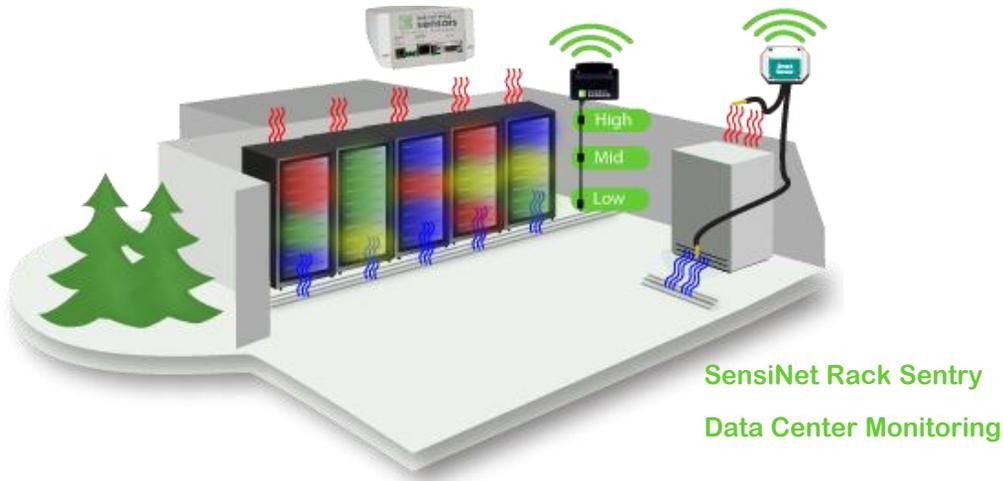
~~Knowledge is Power~~ ^{SAVES}



(Adjective: Easily understood or done; presenting no difficulty – Webster)

For Cooling Optimization

Efficiency is something you don't see unless... you make it visible.



Six SIMPLE Steps for Cooling System Optimization

S

Sample

ASRAE TC 9.9 Suggests the first step in any cooling optimization project requires knowledge of server inlet temperatures. Granular temperature measurements give you that knowledge.

I

Improve

Grab the low hanging fruit... are blanking panels in place? ... are perforated tiles well placed and sufficient?... is cooling air re-circulating from hot aisle to cold aisle? Studies suggest these low cost measures return huge efficiency gains.

M

Maximize

Are your servers being overcooled? Are hot aisle temperatures too low? Are you running too many/too few CRACs? Maximize the performance of your existing system by operating as closely to design limits as possible while maintaining adequate protection.

P

Protect

Protect efficiency gains by monitoring and alerting deviations from optimized operation. Have new high density servers been installed? ... old servers removed? .. blanking panels removed? Continuous monitoring forms the foundation for a continuous commissioning program to protect hard fought efficiency gains.

L

Locate

Locate hidden capacity. Newer or more CRACs are unnecessary, VFDs may not be required. Use actual system performance data to locate additional opportunities for efficiency gains.

E

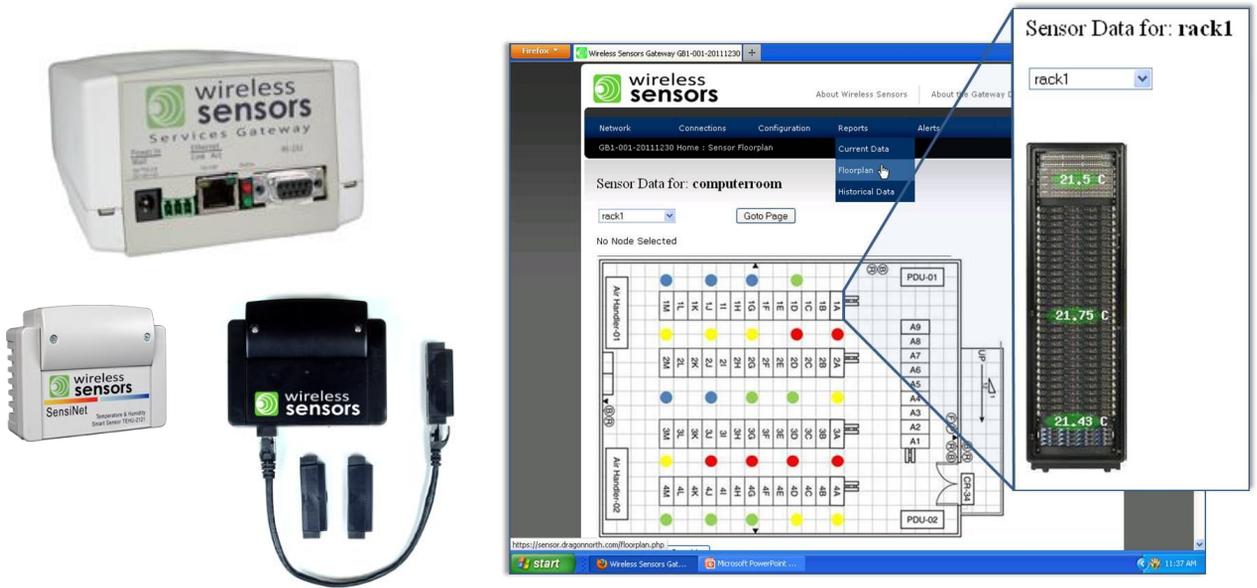
Ensure

Ensure your decisions are based on facts. Actual baseline performance data enables you to obtain the expected results from equipment upgrades and improvements and provides the necessary data to base ROI decisions for capital improvements.



wireless
sensors

RACK SENTRY, the SIMPLE System to Install and Operate



S

Stand-Alone

All necessary components to deploy a system are included and accessed through a standard web browser for all set up and monitoring functions. Up and running in minutes with no wiring and no software to install.

I

Intuitive

Easy to understand user interface makes user deployment practical, avoiding expensive professional services contracts.

M

Modular

Mix and match "Rack Packs", CRAC Packs" and individual sensors to fit your exact application needs.

P

Powerful

A powerful analytics engine provides real time calculation of Rack Cooling Index, reducing the complexity of interpreting raw sensor data. This combined with a robust alerting engine delivers actionable information where and when it is needed.

L

Linkable

A rich suite of communication protocols connects to BMS, DCIM and other systems.

E

Economical

Industry leading TCO makes the system affordable for all budgets. Complete system for about \$1/SF!

RACK SENTRY Product Information



The SensiNet Services data acquisition Gateway is a powerful appliance providing network management, user interface, data logging, trending, alarming and communications without any complicated software to install. A standard browser and network connection is all that's required to access and configure the system. The GWAY-1022 also operates as stand-alone data logger with real time views, trending and e-mail alerts.



The Rack Sentry utilizes a solid state sensor in a unique configuration for ultimate installation flexibility. Individual sensors are "daisy chained" using standard CAT5 patch cables. Up to three sensors are supported as standard and these sensors can be added and or reconfigured in the field. The system simply recognizes the attached sensors and reports temperature with virtually no user configuration.



The TEHU -2120 data acquisition smart sensor is a wireless temperature monitoring device and component of the SensiNet wireless sensor network. It reports highly accurate, real-time ambient level temperature without wires and is FCC and CE-approved for license free operation worldwide.



The TEHU -2121 data acquisition Smart Sensors is a wireless temperature and humidity monitoring device and component of the SensiNet wireless sensor network. It reports highly accurate, real-time ambient level temperature and humidity measurements without wires and is FCC and CE-approved for license free operation worldwide



The TEMP-1022/1122 & TEMP-1024/1124 data acquisition Smart Sensors are wireless temperature measuring devices that accept either 2 or 4 standard RTD's and are components of the SensiNet wireless sensor network.



The CURR-1022 data acquisition Smart Sensor is a wireless current sensing device which accepts two 0/4-20 mA signals. The CURR-1022 has on board batteries for complete tether free operation or can be equipped with an external DC (10-30VDC) power supply which will simultaneously power two loop powered transmitters and the CURR-1022.



The CONT-1022 data acquisition Smart Sensor is a contact monitoring device which accepts two contact inputs and is a member of the SensiNet wireless sensor network. It continuously monitors the state of its inputs and reports their status on a selectable reporting interval and will also report any change in status immediately for real-time alarming. The CONT-1022 can be used with a variety of switches including mechanical, IR, and magnetic .

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