Remote Management Solutions

QTS Environmental Sensors

QTS Sensors provide on-demand visibility into key temperature and humidity data at the rack-level.

Environmental sensors can help prevent overcooling, undercooling, electrostatic discharge, corrosion and short circuits – optimizing your critical data center equipment. With QTS Sensors, you gain visibility into your racks' temperature and relative humidity metrics and trends before thresholds are exceeded through our award winning digital platform, SDP.

Installed by QTS data center technicians per ASHRAE* standard on racks you designate, QTS Sensors help to reduce operational costs, and improve uptime with no capital expenditure. Optimize your data center ecosystem to ensure you are meeting guidelines and improve your power draw for optimal performance and efficiencies.

Key Features

- On-demand visibility into sensor location and rack-level temperature and relative humidity via QTS SDP
- View and export historical trending reports
- Sensors designed for quick installation, no cabling required
- Compact footprint minimizes obstruction in customer space
- Accurate temperature and humidity sensing (self-calibrating), +/– 0.3°C, +/– 2% humidity
- Automatic power source switching between available power sources for no downtime
- Integration with QTS Data Center's Building Management System (BMS)

Key Benefits

- Sensors provide environmental monitoring and alert QTS technicians to potential moisture, elevated temperature and thermal runaway problems
- Sensors can save energy costs for every degree of upward change in the baseline temperature
- QTS technicians actively monitor readings via QTS BMS and adjust data hall environmental settings to maintain optimal conditions
- Shift capital expenditures to predictable monthly recurring expense

Benefits

Spot trends, be informed before failures occur, improve data center availability, and save energy.

- Avoid downtime
- Extend equipment lifespan
- Improve power and cooling costs
- Improve equipment performance and efficiency

*ASHRAE – American Society of Heating, Refrigeration and Air Conditioning Engineers

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What's Included

Solution includes the use, installation, setup, maintenance and support of the sensor devices and associated software. QTS maintains ownership of all equipment and is responsible for replacement batteries at regular intervals.

Installation

As part of the Sensors service, QTS technicians place sensors directly on designated racks and cabinets in cold aisles, five feet off the floor, per ASHRAE standards.

Specifications

Data Recording Interval	3 second intervals
Data Display Interval	15 minutes
Device Dimensions	3.3 × 1.7 × 1.34" – with mounting bracket
Temperature	Typical Temperature Accuracy +/– 0.3°C
	Ambient Operating Temperature Range -40C to 60C
Relative Humidity	Typical Relative Humidity Accuracy +/– 2%
	Humidity Operating Range 0 to 100% RH
Battery	QTS provides and replaces at regular intervals
Mounting type	Magnetic

Ordering & Deployment Process

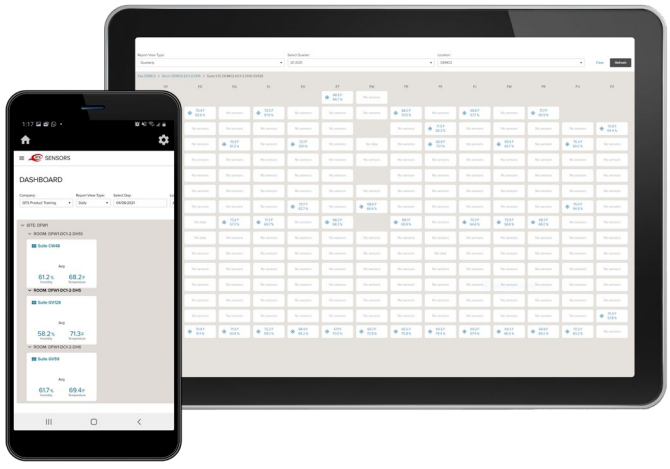
STEP 1: Consult with QTS Sales Team to submit Discovery Form

STEP 2: Place order with QTS Sales Team

STEP 3: QTS on-site technicians install and activate sensors; customer receives access to Sensor Analytics via SDP

Availability

Available today at QTS mega data centers across the U.S.



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