

 Humidity/Dew Point

 Smoke

 Door Position

 Temperature

 Airflow

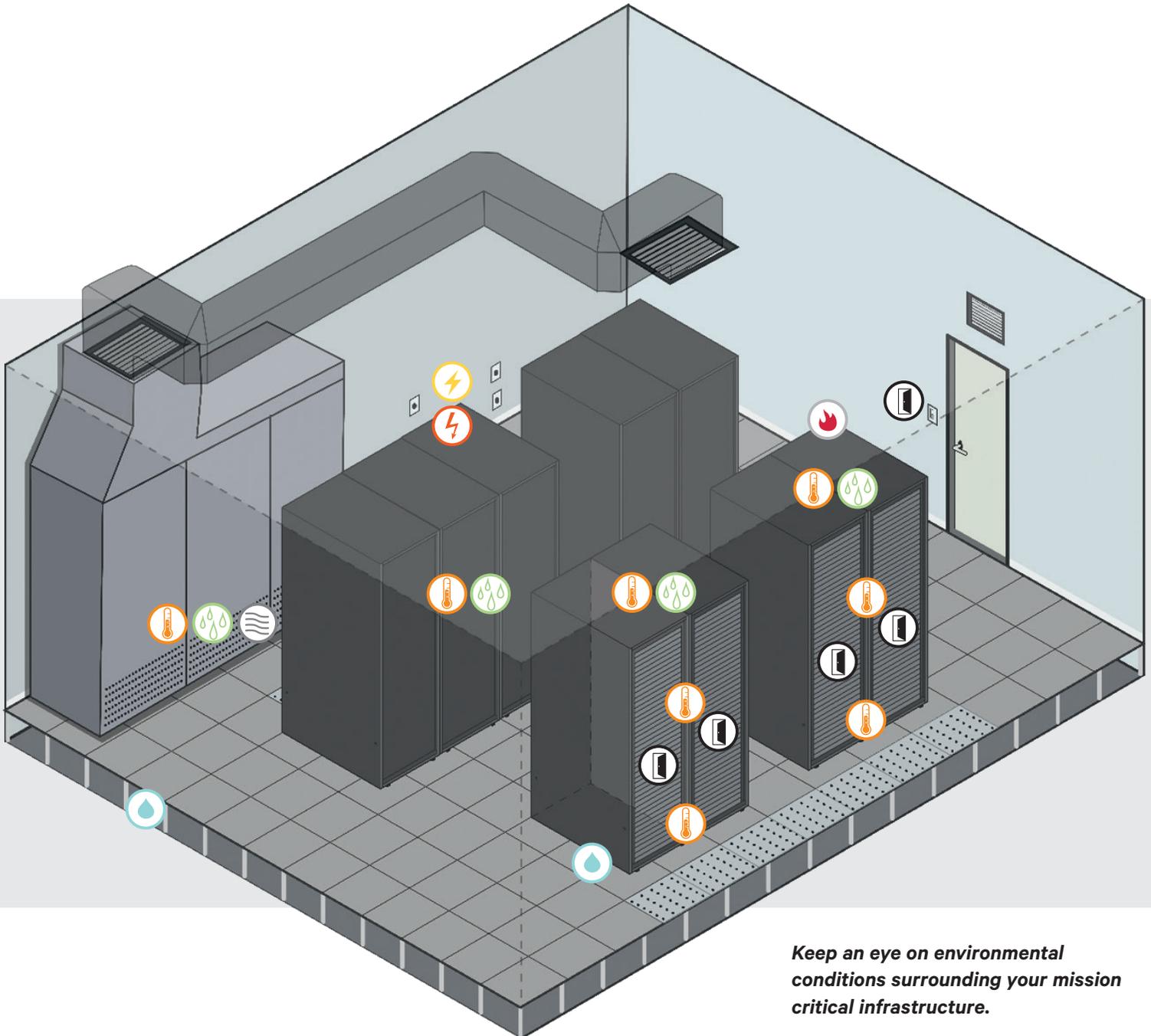
 Power Failure

 Water Leaks

Vertiv™ PowerIT Environmental Monitoring solutions provide peace of mind ensuring your critical infrastructure is protected.

Proactively Monitor Your Data Center

Environmental factors like heat, humidity and moisture pose a severe threat to mission-critical infrastructure. These dangers can be minimized by incorporating a network of environmental sensors to collect data and alert users of potential threats.



Keep an eye on environmental conditions surrounding your mission critical infrastructure.

Key Features

- Receive alerts when a user specified threshold is breached to ensure out-of-range conditions are addressed before resulting in downtime.
- Expand monitoring capabilities with the addition of external sensors.
- View real time sensor data from a secure web interface and receive alerts via Email, SNMP, or Email-to-SMS.

Environmental Monitor Product Overview

	Feature	Watchdog 15	Watchdog100
On Board Sensors	Temperature	•	•
	Humidity / Dew Point	•	•
External Sensor	# Plug-n-Play Sensor Ports	2	2
	Max Plug-n-Play Sensor Capacity	4	4
	# Dry-Contact / 0-5V Sensor Ports	0	4
Hardware	Built-in PoE	Optional	Optional
	Dry-Contact Relay Outputs	0	1
	Rackmount 19" 1U		•
	Ethernet	10/100	10/100
Web Server	USB		
	IPv6	•	•
	HTTP / HTTPS	•	•
	DHCP	•	•
Firmware	JSON API	•	•
	Real Time Sensor Data Feeds	•	•
	Sensor Data Logging & Graphing	•	•
	Data Logs	CSV, JSON	CSV, JSON
	SNMP (v1, v2c, v3)	•	•
	Email & Email-to-SMS Alerts	•	•
	Alarm Escalations	•	•
	Alarm Repeat	•	•
	Alarm Delay	•	•
	Alarm Valid Hours	•	•
	Encryption via TLS	•	•
Login Security	3 Admin, Control, View Only		
Benefits	Compatible with Device Director	•	•
	Free Firmware Updates	•	•
	Free Technical Support	•	•
	Warranty		5 Years**
Reg	Regulatory Compliance		UL, FCC, CE, RoHS



Smoke



Humidity/Dew Point



Door Position



Voltage



Water Leaks



Temperature



Airflow



Power Failure

****Standard 3 year warranty increased to 5 years with product warranty registration within 120 days of purchase.**

Product Overview

Environmental Monitors

Watchdog 15/15P

The Watchdog 15 is a self-contained environmental monitor with an onboard temperature and humidity sensor. Equipped with two Plug-n-Play sensor ports, the Watchdog can support up to four external sensors using a splitter.

The Watchdog 15 is a cost-effective and reliable solution for monitoring critical environments.

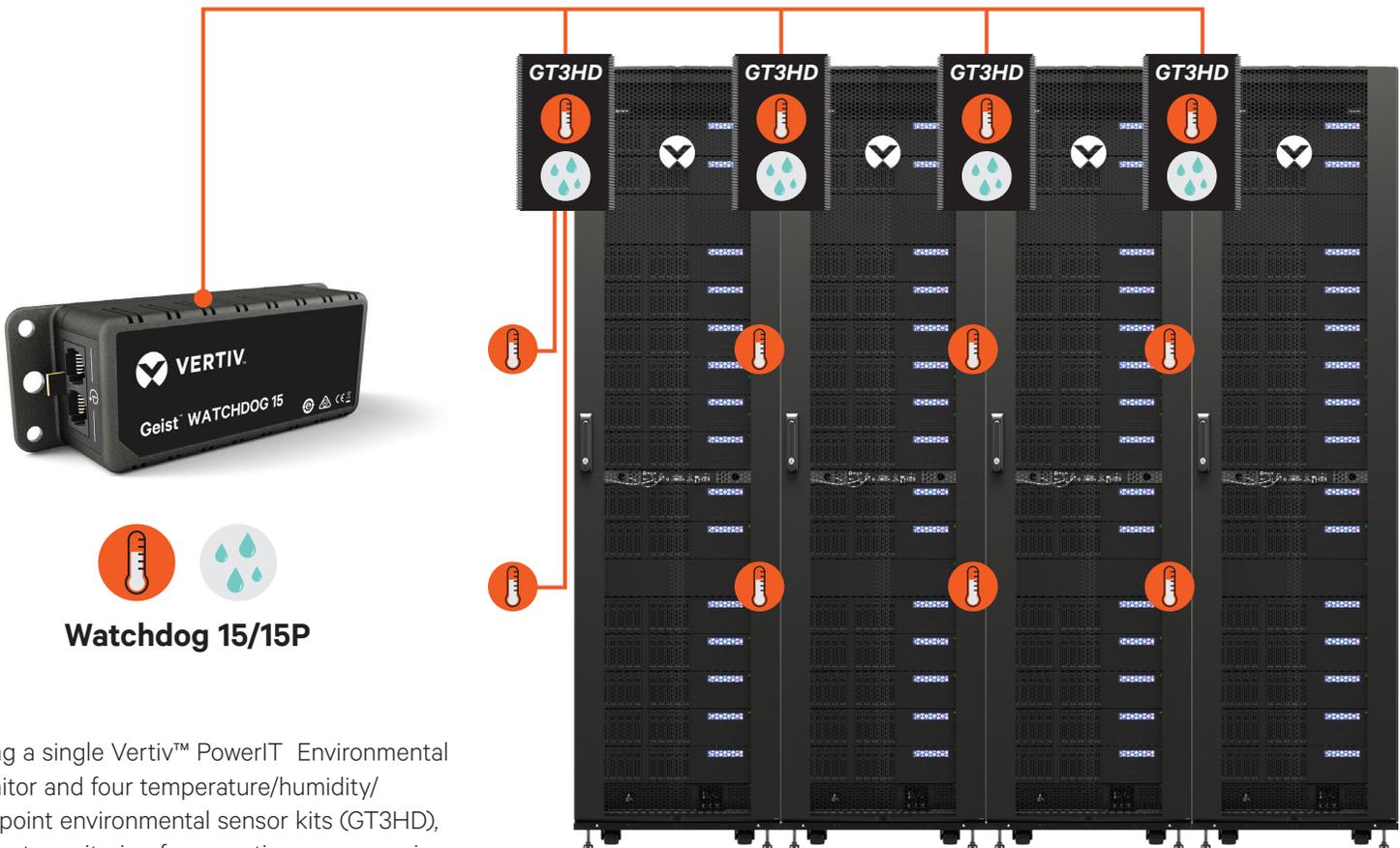
Power over Ethernet (PoE) option available.



Watchdog 15 Models	Description
Watchdog 15	Watchdog with 5-15P wall power supply
Watchdog 15-NPS	Watchdog with No Power Supply
Watchdog 15-UN	Watchdog with Universal Power Supply
Watchdog 15-P	Power over Ethernet Watchdog with 5-15P wall power supply
Watchdog 15-P NPS	Power over Ethernet Watchdog with No Power Supply
Watchdog 15-P UN	Power over Ethernet Watchdog with Universal Power supply

*Consult Vertiv Sales for which version is best for your country of use.

Effective temperature monitoring in the data center



Using a single Vertiv™ PowerIT Environmental monitor and four temperature/humidity/dewpoint environmental sensor kits (GT3HD), vigilant monitoring for an entire server row is remarkably convenient and affordable.



Watchdog 100 Models

Description

Watchdog 100	Standard Watchdog with 5-15P wall power supply
Watchdog 100-NPS	Standard Watchdog with No Power Supply
Watchdog 100-UN	Standard Watchdog with Universal Power Supply
Watchdog 100-P	Power over Ethernet Watchdog with 5-15P wall power supply
Watchdog 100-P NPS	Power over Ethernet Watchdog with No Power Supply
Watchdog 100-P UN	Power over Ethernet Watchdog with Universal Power supply

*Consult Vertiv Sales for which version is best for your country of use.

Watchdog 100/100P

The Watchdog 100 combines environmental monitoring with remote relay control. The relay output can be tied to alarm settings or triggered manually. The unit comes equipped with an onboard temperature and humidity sensor, two Plug-n-Play sensor ports and four Dry Contact/ 0-5V sensor ports.

The Watchdog 100 provides comprehensive sensor connection options in a compact solution. It is shipped with rack-mount brackets offering flexibility for installation and wire management.

Power over Ethernet (PoE) option available.

Web Interface Overview

The screenshot shows the VERTIV web interface with a navigation bar containing 'Sensors', 'System', and 'Help'. The 'Sensors' tab is active. The main content area displays two sensor panels. The 'Rear of Rack' panel (Device ID 60D88039829405C3) shows real-time data for Geist WD100: Temperature (75.18 F), Humidity (33%), and Dewpoint (44.13 F). Below this is a table of sensor states with friendly names like 'Door', 'Flood', 'Smoke Alarm', and 'GX Temperature'. The 'External' panel (Device ID C2000007FA0E0228) shows a single sensor 'SRT' with a temperature of 74.19 F and a red alarm icon.

Real-time Sensor Data

Friendly Names Per Sensor

Visual Alarm Status

Analog Input Customization

The 'Configuration' dialog shows settings for 'Analog 1'. The 'Label' is 'Isolated Voltage Sensor'. The 'Mode' is set to 'Isolated Voltage (- Gnd)'. The 'Scaled Value at 0V' is 0, and the 'Scaled Value at 5V' is 72. The 'Units Label' is 'VDC'. 'Save' and 'Cancel' buttons are at the bottom.

The 'Data Graph' shows a line chart for the period '2019-04-01 19:20 through 2019-04-29 18:04'. The y-axis ranges from 1 to 100. The legend includes: Rear of Rack Temperature (dark blue), Rear of Rack Humidity (light blue), Rear of Rack Dewpoint (teal), Rear of Rack Door (green), Rear of Rack Flood (light green), Rear of Rack Smoke Alarm (purple), Rear of Rack GX Temperature (red), and External Temperature (orange). A 'Time Range' dropdown is set to '30 days' with a 'Display/Refresh' button below it.

Time Based Data Graph

Customizable Time Range

International Support and Language Selection

The 'Locale' dialog shows 'Default Language' set to 'English' and 'Temperature Units' set to 'Fahrenheit'. A 'Save' button is at the bottom.

About Our Firmware

We strive to continually improve our product and feature set by listening to our customers and keeping up with the latest trends. Listed here are some of the major firmware features Vertiv™ PowerIT environmental monitors offer.

Logging	Record sensor data over time. Turn data logging on or off for certain sensor measurements. Export sensor data logs in CSV file format.
Graphing	Graph sensor data over time to view trends. Graph select sensors in relation to each other.
Email & SMS Alerts	Receive Email alerts on alarm. Configure SMS alerts via Email-to-SMS gateway. SMS messages are shortened so that you receive one text message per alarm as opposed to multiple messages.
SNMP	Support for SNMP v1, v2c, v3 with traps. Devices are compatible with most network management software such as What's Up Gold, Nagios, IP Sentry, OpenView, Solarwinds, Spiceworks and other SNMP based software.
Alarms Escalations	Specify any combination of actions or recipients per alarm. Configure multiple alarm thresholds per sensor
Alarm Repeat & Delay	Specify a 0 to 240 minute delay per alarm to get an alert only when a threshold has exceeded continuously for the set number of minutes. Alarms can repeat every 10, 30, or 60 minutes until all measurements are back to normal.
Business Hours	Enable or disable Email alert notifications for selected recipients during specified business hours on certain days of the week.
Analog Inputs	Configure analog inputs by assigning a scale range to the 0—5 VDC signal to view sensor data in meaningful units.
Friendly Names	User specifies descriptive names per sensor for easy identification.
International Support	Metric & Imperial measurements. Customizable date and time format options.
Security	HTTPS using SSLv3/TLSv1.
Supported Languages	English (default), Spanish, French, German and Mandarin. Easily change between languages as needed.
Access Account Levels	Administrator, Control, and View Only accounts with varying privileges.
Plug-n-Play Sensors	Firmware automatically detects a sensor when connected.
Remote Firmware Updates	Update firmware safely and easily through the web interface.

Plug-n-Play Environmental Sensors



Temperature (SRT)

The SRT is an easy-to-install external temperature sensor great for monitoring a variety of areas, such as; A/C inlet, A/C outlet, ambient room temperature, hot spots, and internal cabinet temperature. The SRT is available in a variety of cable lengths. Contact a Vertiv sales representative for a full list of temperature sensor options.

Standard Parts: SRT-12, SRT-20, SRT-50, SRT-10



Temperature/ Humidity/ Dew Point (GTHD)

The GTHD sensor collects and transmits real-time data to protect critical data center and Edge infrastructure from heat and moisture. The sensors can be daisy chained together to simplify installation.

Standard Parts: GTHD, GTHD-50



Temperature x 3/ Humidity/ Dew Point Kit (GT3HD)

The GT3HD provides real-time temperature and humidity monitoring with additional 3ft/ .9m and 6ft/ 1.8m temperature sensors. The GT3HD is ideal for monitoring temperature at the top, middle, and bottom of a server cabinet. A supplementary input provides the ability to daisy-chain additional sensors together making it a perfect solution for monitoring a row of racks or cabinets. Standard Parts: GT3HD, GT3HD-50



Temperature/ Humidity/ Dew Point/ Airflow (RTAFHD3)

The RTAFHD3 temperature, humidity, dew point, and airflow sensor provides critical information to ensure equipment is receiving adequate airflow within the optimal parameters to prevent premature equipment failure due to out-of-range operating conditions.

Standard Parts: RTAFHD3-12, RTAFHD3-20, RTAFHD3-50, RTAFHD3-100



Analog-to-Digital Converter (A2D)

The A2D allows users to connect a dry contact, 0-10V, or 4-20mA sensor to an RJ12/ Plug-n-Play sensor port. It provides users with the flexibility to utilize a Plug-n-Play sensor port for a Dry Contact / 0-5V sensor.

Standard Parts: A2D-10, A2D-50

Environmental Monitor Accessories

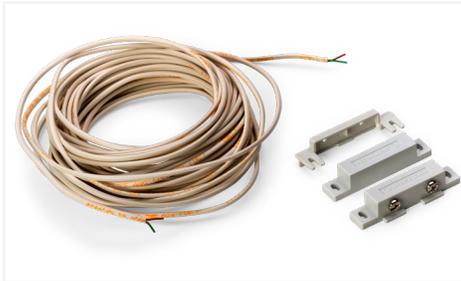
5-Port Splitter (SP-5)

The 5-Port Splitter increases the number of available Plug-n-Play sensor ports. The splitter is required to connect four external sensors to the Watchdog without daisy-chaining.

-48 VDC Power Supply

The -48VDC Power Supply allows users to utilize a -48VDC power source to power the Watchdog 15 and Watchdog 100. Standard Part: -48VDCPS

Analog/ Dry Contact Environmental Sensors



Door Position (RDPS)

The RDPS detects when a door or cabinet is open or closed. The door position sensor has four components: magnet, switch with screw-terminal, cover and connection wires. The wired switch is mounted to the door frame or cabinet and the magnet on the door, opposite the switch. When the door is opened, the switch separates and the sensor trips an alarm.
Standard Parts: RDPS, RDPS-50, RDPS-100



Smoke Detector

The Smoke Detector provides real-time recognition of the presence of smoke. The kit contains a standard smoke alarm plus all the wiring to connect to an analog input. The detector plugs into a standard US-style wall outlet.
North America only: SD2



Flood Sensor (FS)

The Flood Sensor detects the presence of water. The sensor measures conductivity and indicates whether the sensor is dry, wet, or completely immersed in water. Flood Sensors are commonly installed near or under plumbing fixtures, A/C drip pans, pipes and water sprinklers.
Standard Parts: FS-15, FS-100



Water Sensing Cable Kit (WSCK)

The WSCK is a perimeter leak detection kit used to detect the presence of water along the entire cable length. These kits are ideal for monitoring for moisture over a wide area such as around a room or group of racks. When connected to any monitor with analog input ports, users will be alerted of the presence of water before it damages critical equipment.
Standard Parts: WSCK-10, WSCK-40, WSCK-60, WSCK-120, WSCK-300



Power Failure Sensor (PFS)

The power failure sensor provides real-time notifications of power outages. It is commonly used to monitor utility, UPS, and 3-phase power. The PFS connects to an analog input port and comes complete with its own power adapter that plugs directly into the power source being monitored. Status LEDs provide immediate indications of system state.
Standard Parts: PFS-100 US, PFS-100 UN, PFS-100 NPS

Monitor Your Critical Facility

Hyperscale and Enterprise Data Centers

Hyperscale and enterprise data centers house thousands of servers and racks. These facilities require confidence that network equipment will stay online to ensure maximum availability.

The Vertiv PowerIT Environmental Monitoring solutions offer user-defined alerts and escalations to empower users to take control of the environmental conditions around their critical infrastructure and prevent system downtime, hardware damage and data loss.

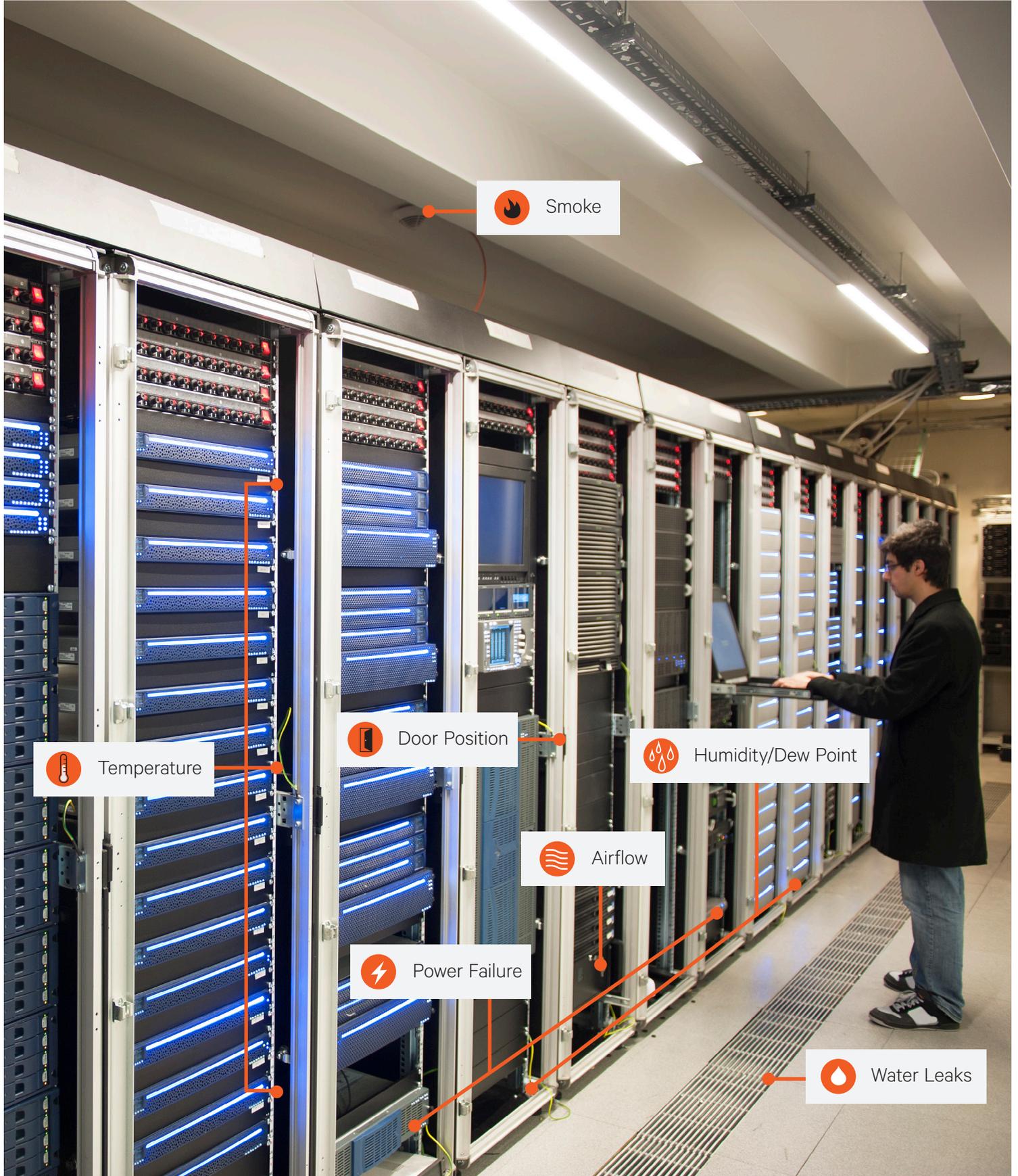


Edge Data Centers

The edge is more important and more complex than ever before, requiring an infrastructure to maintain critical functionality in harsh conditions. With vast differences in Edge applications, it is important to safeguard against uncertain environmental conditions.

Vertiv PowerIT Environmental Monitoring enables IT managers to keep an eye on remote conditions to ensure an optimal operating environment for critical infrastructure, improving reliability and reducing the risk of downtime.





Smoke

Temperature

Door Position

Humidity/Dew Point

Airflow

Power Failure

Water Leaks



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