

Environmental Monitoring Capabilities from APC by Schneider Electric



Identifying Environmental Concerns

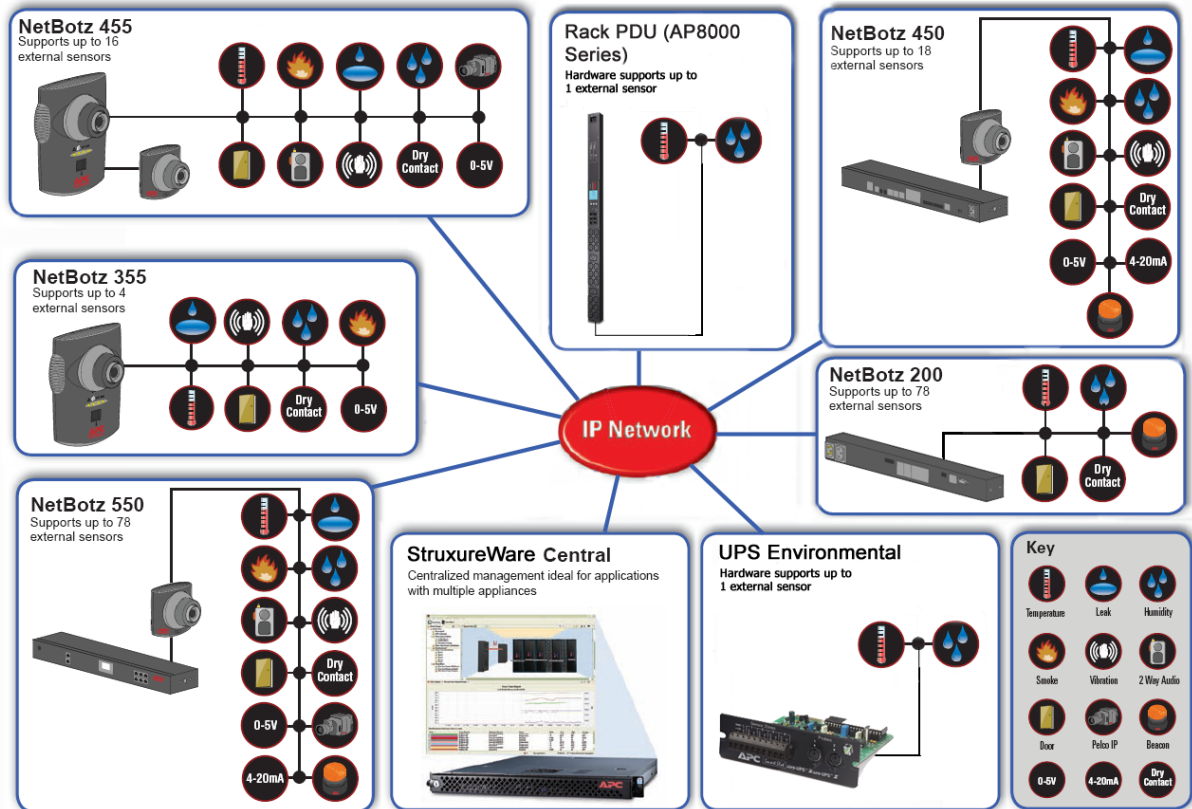
APC by Schneider Electric is the world's leading provider of affordable IP-based intelligent active monitoring solutions. Designed for companies with distributed locations, limited support, and a commitment to preventative measures, APC's environmental solutions are plug-n-play and focus on two critical data points- visual and environmental. The system not only watches the site for things like theft, errors or sabotage, it monitors the entire setting to ensure that whatever sensitive equipment is housed there can perform its mission-critical tasks without environmental disruption.

Below are some of the areas in which mission-critical equipment could be impacted (financial or otherwise) and how an APC solution could minimize the threat:

Risk area	Described	Example of APC Solution
Theft (physical or virtual)	Stolen equipment. Physical attacks against logical security through consoles, ports, wiring closets.	APC product with environmental management capability in a University setting, monitoring laptop storage rooms at University protecting assets.
Environmental disruption	Beyond fires, floods, spikes and surges are less obvious disruptions like air condition failures and burst pipes, both tremendous risk areas.	APC product with environmental management capability in remote banking setting, monitoring wiring closet and alerts failed a/c unit. Saves weekend outage.
Human error	Networks in distributed environments are often located in at-risk settings and predisposed to error.	APC product with environmental management capability in retail setting, employee tries to "fix" router, causing additional problems.
Sabotage	Beyond terrorism, sabotage can include acts performed by disgruntled employees. It's a growing concern.	APC product with environmental management capability in manufacturing setting where servers often sit in warehouses, greater physical security acts as a deterrent to any type of unlawful or destructive act.

Environmental Monitoring Capabilities

Environmental Capabilities and Sensors



Choosing Sensors

Sensor Type	Part number
Temperature / Temp/Humidity	AP9335T/AP933TH
Camera Pod	NBPD0160
Alarm beacon	AP9324
Smoke	NBES0307
Vibration	NBES0306
Leak/fluid detection	NBES0301
Proximity Card Rack Access	NBPD0171/AP9361
Door contact	NBES0302/NBES0303
Dry contact	NBES0304
Particle sensor	NBES0201
0 to 5 V Cable	NBES0305
4 to 20 mA Sensor Pod	NBPD0129



Alarm beacon - AP9324



Temperature/Temp
Humidity-
AP9335T/AP9335TH

Environmental Monitoring Solutions from APC

Environmental Capabilities and Features by Product

Capability/Supported Sensors/Features	NetBotz 200	NetBotz 300/400/500	AP8000 Series Rack PDU	UPS Environmental Network Management Card
Supported Hardware				
Temperature	✓	✓	✓	✓
Humidity	✓	✓	✓	✓
Door Contact	✓	✓		
Dry Contact	✓	✓		
Smoke		✓		
Vibration		✓		
0 to 5 Volt Cable		✓		
Leak/Fluid Detection		✓		
Video Surveillance (USB, Analog, IP)		✓		
Proximity Card Rack Access		✓		
Software Functionality				
Web-based UI	Single IP for up to 78 Sensors	Single IP for up to 78 Sensors	Single IP per Sensor	Single IP per Sensor
Java-based UI		Single IP for up to 78 Sensors		
Alarm-Email	✓	✓	✓	✓
Alarm-SMS, SNMP Traps, Beacon		✓		
Periodic Reports		✓		
Max Value Threshold	✓	✓	✓*	✓*
Min Value Threshold	✓	✓	✓**	✓**
Range Threshold		✓		
Rate of Increase/Decrease Threshold		✓		
Sensor Graphing		✓		
Map View		✓		
Historical Data Log	✓	✓	✓	✓

* Maximum value threshold on temperature only

**Minimum value threshold on humidity only