An ounce of prevention is worth a pound of cure. But what if you don't know about the problem?

Nodegrid's sensors and alerting devices give you visibility into your IT assets. Quickly scale and collect crucial environmental data, whether monitoring for temperature changes or human errors. Seamlessly integrate with Nodegrid devices to view and manage your sensors, or aggregate sensor data using Nodegrid Data Lake. Get the right information at your fingertips to respond in real time and drive smart IT decisions.

Maintain Continuity
Install fast using zero touch provisioning, and immediately start protecting your IT assets from disruption.

Prevent Catastrophe
Use remote monitoring and alerting to respond instantly. Script automated, self-healing responses and stop outages before catastrophe can strike.

Optimize Efficiency
Integrate with Nodegrid Data Lake for complete KPI visibility, and see exactly how to get more out of your systems.

Questions to Ask
- How will you know if theres a cooling failure in your large-scale environments?
- How long does it take to identify and respond to issues at your remote sites?
- How much downtime do you experience due to unplanned environmental changes?
- Can your IT infrastructure warn of serious issues, or leave you responding to catastrophe?
- Do you have adequate intrusion detection and alerting at the edge?

Where to Deploy:
Deploy Nodegrid's sensors and alerting devices at:
- Data centers and colocation hubs
- Critical remote locations, like cellular base stations
- Large-scale locations with power and cooling concerns
- Distributed sites where there's limited staff presence

- 🔴 Dry Contact
- 🔵 Temperature and Humidity
- ⚪ Smoke
- 🟡 Airflow
- 🟢 Beacon and Alarm
- 🟠 Dust and Particulate
- 🔵 GPIO
- ⭕ Relay

Don't Expose your Business to More Risk
- Environmental changes: Fires and floods might be obvious to identify. But what about power surges, temperature spikes, or humidity changes?
- Human error: As skilled as your staff are, mistakes happen. Will you know if they unknowingly configure the wrong settings or forget to lock the rack door?
- Security: Attacks can come from inside your organization. Do you have the tools in place to detect open ports or even physical attacks on your equipment?

8 Channel USB GPIO Module

IO8-U01

Seamlessly connect real-world devices via USB. This GPIO device hides the complexity of USB and integrates with Nodegrid USB port. Detect open rack doors or discover triggered sensors. Control and read status using CLI, Web, SNMP or Restful APIs.

• 8 TTL compatible GPIOs individually configured as input or output

4 Channel USB-Powered Relay Module

RL4-U01

Automate control of your equipment and sensors with this easy-to-use 4-port relay module. Connect to Nodegrid USB port, and relay simple commands to devices . Control and read relay status using CLI, Web, SNMP or Restful APIs.

• 4 onboard DPDT Relays
• 2A Maximum Switching Current

Temperature and Relative Humidity Sensor

THS-U01

Acquire environmental temperature and relative humidity readings. Easily integrate the compact probe in space-constrained locations, and get precise measurements from the factory-calibrated, linearized, and temperature-compensated digital sensor chip. The built-in particle filter protects the components against dust, soot, and other particle contaminants. Control and read status using CLI, Web, SNMP or Restful APIs.

• Temperature: -40°C to 70°C, ±0.3°C
• Relative humidity: 0 %RH to 100 %RH, ±2.0 %RH

Flange Mount Proximity Sensor

DOOR-01

Ensure rack doors are in the proper position using this proximity sensor. You don't need standby power, and can simply install using adhesives or hardware. This hermetically sealed, magnetically operated sensor works through wood, plastic, and other non-ferrous materials, with contacts that function even after optical and other technologies fail due to contamination. Read door status using CLI, Web, SNMP or Restful APIs.

• Temperature Range -40 to +105
• Ships with both Sensor and Actuator

USB Signal Beacon with Alarm

BCON-U01

Pinpoint rack and device problems using this USB Signal Beacon with Alarm. Get visual and audible feedback when your systems fall out of spec, and respond quickly to problem areas. This beacon integrates with Nodegrid USB port, and features a long-lasting lifetime with IP65 protection from water and dust. Control and read status using CLI, Web, SNMP or Restful APIs.

• 3 Meter cable length
• Buzzer 80dBm @ 1 meter
• Blue LED

USB Signal Beacon (no alarm)

BCON-U05

See which systems need attention with this USB Signal Beacon (no alarm). Receive multi-color visual indication of problematic devices and systems. This beacon is controlled and powered fully via USB port. Control and read status using CLI, Web, SNMP or Restful APIs.

- 5 Meter cable length
- Red, Green, Blue LED
- Solid or Blink

Airflow and Temperature Sensor

AIR-U01

Prevent lack of device airflow from causing downtime. This airflow and temperature sensor provides highly precise readings (up to 200fpm) via digital interface, so you can instantly know when a device's fan slows down or fails. Control and read status using CLI, Web, SNMP or Restful APIs.

- Velocity Range: 0.15 to 1.0 m/s [30 to 200 fpm]
- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- Supply Power Requirements: 4.5 - 12 VDC, 35mA
- Cable Length 4 Meters

Airflow and Temperature Sensor

AIR-U02

Stop downtime due to HVAC failure. This airflow and temperature sensor provides highly precise readings (up to 2,000fpm) via digital interface. Find out exactly when and where your HVAC systems have slowed or failed, and quickly respond to prevent downtime. Control and read status using CLI, Web, SNMP or Restful APIs.

- Velocity Range: 0.5 to 10.0 m/s [100 to 2,000 fpm]
- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- Supply Power Requirements: 4.5 - 12 VDC, 35mA
- Cable Length 4 Meters

Smoke Detector

SMK-U01

Detect smoke. Use in conjunction with the USB-GPIO's dry contact and USB Relay modules. Get notified if the detector becomes triggered, and remotely power on/off. Control and read status using CLI, Web, SNMP or Restful APIs.

- Smoke detection complies with EN 54-7:2000+ A1:2002
- IP30 ingress protection
- 3 Meter cable

Particulate Sensor

DST-U01

Set up this compact sensor and respond quickly to airborne contamination. This Particulate Sensors features a high concentration range, and it offers 10 years of continuous use so you can set it and forget it. Monitor and respond to environmental particulates, and ensure air optimal air quality for your operations. Control and read status using CLI, Web, SNMP or Restful APIs.

- Laser-based light scattering particle sensing with <6 s response time
- Fully calibrated with concentration range: 0 µg/m3 to 1,000 µg/m3
- EMC: Heavy industrial level IEC61000
- PM2.5, PM10 output (standard); PM1.0, PM2.5, PM4.0, PM10 output (compact)
- RoHS and REACH compliant
- 4 Meter cable

7-Port USB 3.0 Hub

HUB-U01

Connect more sensors and USB devices to your Nodegrid appliances using this 7-Port USB 3.0 Hub. Cover all possible environmental setbacks by connecting up to seven additional Nodegrid sensors.

- 1 Meter Cable, Swappable.

Ordering Information

Product SKU	Description
THS-U01	Temperature and Relative Humidity Sensor
RL4-U01	4 Channel USB-Powered Relay Module
IO8-U01	8 Channel USB GPIO Module
DOOR-01	Flange Mount Proximity Sensor
BCON-U01	USB Signal Beacon with Alarm
BCON-U05	USB Signal Beacon (no alarm)
AIR-U01	Airflow and Temperature Sensor (30-200 fpm)
AIR-U02	Airflow and Temperature Sensor (100-2,000 fpm)
SMK-U01	Smoke Detector
DST-U01	Particulate Sensor
HUB-U01	7-Port USB 3.0 Hub