# **PRODUCT CATALOGUE**



Simpy smart monitoring Anywhere. Everywhere.

**FEBRUARY 2020** 



### **Base Unit**

### SensorGateway



#### BASE-WIRED 📀

Display Web Server: Security: Built-In Alerting: Protocols:

Network: External Probes: PoE: Power Adapter:

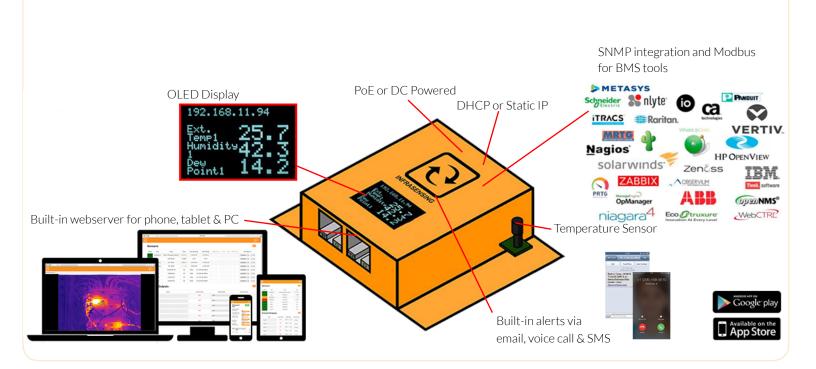
Operating Conditions Temperature: Humidity:

Embedded Temperature Sensor Resolution: Accuracy:

#### OLED HTTP Built-in Firewall email, SNMP Traps, SMS, call SNMP v1,v2,v3 Modbus TCP XML, JSON IPv4 at 10/100 Mbps 2 optional probes IEEE 802.3af 12V DC

0°C to 75°C / 32°F to 167°F <90% RH (non-codensating)

0.1°C / 0.18°F ± 0.5°C from - 10°C to +85°C ± 1°F from 14°F to 185°F degrees Celsius or Farenheit

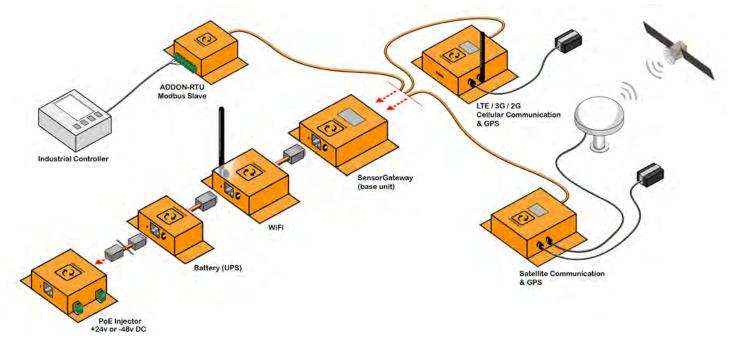


### Add-Ons

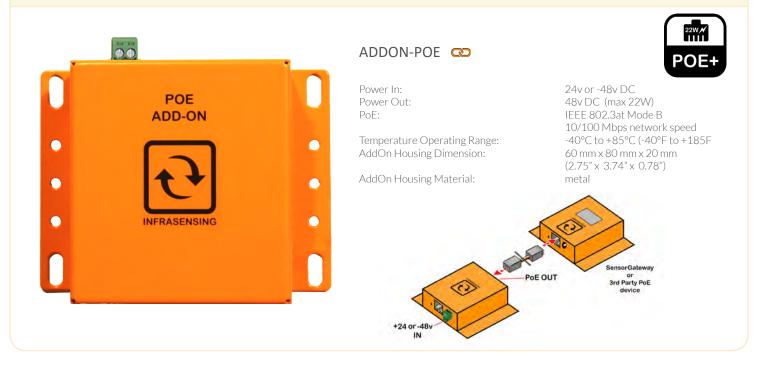


The Sensorgateway, the base unit, requires by default a network cable and 12v DC or POE power input with network based alerting.

With the optional add-on modules, customers can add other network and power connectivity options to the base units. The Cellular Alerting & GPS modules enable to receive alerts even when your IP network is down and provides location data.



### DC Power Add-On (PoE injector)





### Add-Ons

### Wifi Add-On

#### ADDON-WIFI 🔘

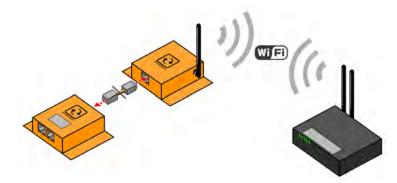


Wifi Frequency: Wifi Standards: Temperature Operating Range: Housing Dimensions:

Housing Material:



802.11 b/g/n -40°C to +85°C (-40°F to +185F) 70 mm (2.75") x 95 mm (3.74") x 20 mm (0.78") metal



2.4 GHz

### LTE/3G/2G Cellular Add-On



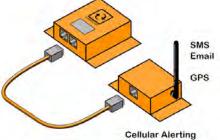
#### ADDON-LTE 🔊

Power Source: Power Usage: LTE FDD:

LTE TDD:

GSM: SIM: **Optional Positioning:** Wireless Module: Operating humidity range: Dimensions: Weight:

SensorGateway (BASE-WIRED) 1400 mW B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/B26/B28 B38/B39/B40/B41 WCDMA B1/B2/B4/B5/ B6/B8/B19 B2/B3/B5/B8 Micro SIM GPS Quectel wireless module embedded Operating temperature range: -40°C to +85°C (-40°F to +185F) < 90% rH (non-condensating) 95 mm (3.7") x 84 mm (3.3") x 27 mm (1.0") 0.24 kgs (0.53lbs.)





### Satellite Add-On



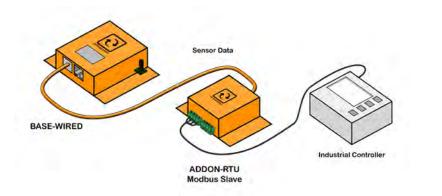
### Modbus RTU (Slave) Add-On



#### ADDON-RTU 📀

Connected like a sensor, behind the base unit Surge protection on the RS-485 data line 3000 VDC Isolation protection Operates as a Modbus RTU Slave One RS485 bus 1 Device IN and 1 Device OUT terminal block.

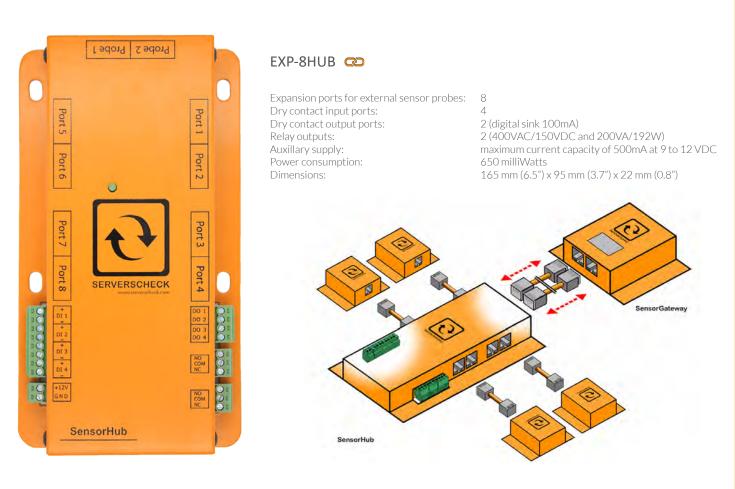
Temperature Operating Range: Connection: Power: -40°C to +85°C (-40°F to +185F) Connects to a sensor port of the base unit or expansion hub Powered by the base unit





### **Expansion Hubs**

### Sensorhub for SensorGateway



One Expansion Hub or any Extension modules may be used per Sensorgateway (base unit)

### **Expansion Hubs**



### Multi-Sensor & Hub



The unit features 10 sensor metrics on board that are most commonly required for monitoring remote cabinets and smaller server rooms:

- temperature
- humidity
- dew point
- shock
- sound
- motion
- power failure
- luminosity (light in Lux)
- smoke sensor
- water leak sensor & 6ft sensing cable

#### EXP-4HUB 🔘

Expansion ports for external sensor probes: 4 digital and 1 analog sensor Dry contact input ports: 8 Dry contact output ports: Auxillary supply: Power consumption: Dimensions: Housing: Operating temperature range: Specifications of on board sensors: Temperature Resolution: Temperature Accuracy: Readings in Celsius or Fahrenheit Relative Humidity Measurement Range: Relative Humidity Resolution or precision: Relative Humidity Accuracy:

Relative Humidity Long Term Stability: Sound (db) Resolution: Luminosity Resolution: Vibration unit: Minimum value:



4 (digital sink 100mA) maximum current capacity of 500mA at 9 to 12 VDC 650 milliWatts 160mm (6.3") x 165mm (6.5") x 60mm (2.4") Orange metal casing with one LED status indicators 0°C to +75°C (32°F to +167°F) in PoE mode

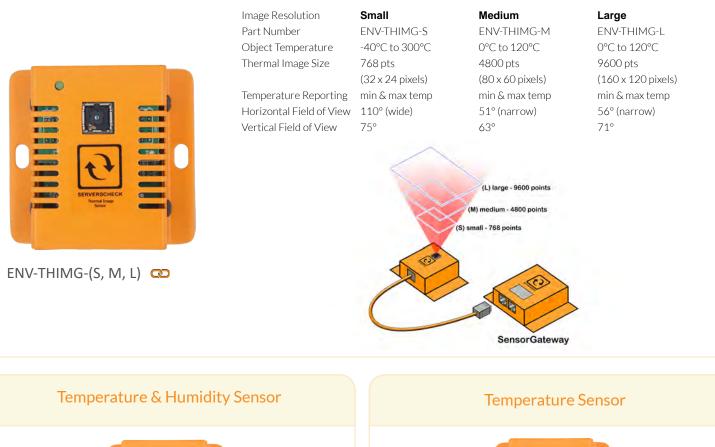
0.1°C (0.18)°F precision ± 0.5°C (± 0.9 °F) over 0°C to +60°C

0 to 100 % RH 0.1 % RH and 1 % RH ± 2 % RH between 10 % RH to 90 % RH and ± 4 % RH below 10 % RH and above 90 % RH < 1 % RH/year 1 db precision 0.5 Lux precision G force 1G

One Expansion Hub or any Extension modules may be used per Sensorgateway (base unit) Sensor package includes the EXP-4HUB, Smoke sensor (via dry contacts) and water leak sensor with leak sensing cable



### **Thermal Image Camera Sensor**





#### ENV-THUM 🔊

Temperature Specs Resolution: Range: Accuracy

Humidity Specs Resolution: Range: Accuracy: 0.1°C / 0.18°F 0° to 70° C / 14°F to 185°F ± 0.5°C from 0°C to +60°C ± 1°F from 14°F to 185°F

0.1% RH 0% to 100% RH ± 2% between 10% and 90%RH ± 4% <10% and >90% RH



#### ENV-TEMP

Resolution: Range: Accuracy 0.1°C / 0.18°F 0°-70°C / 14°F to 185°F ± 0.5°C from -10°C to +85°C ± 1°F from 14°F to 185°F

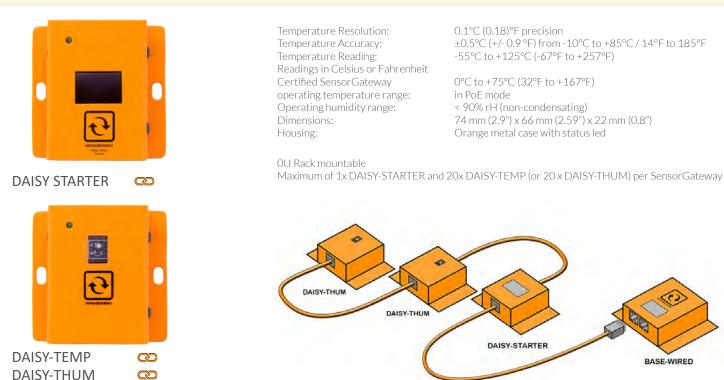
### **Temperature Sensors**







### **Daisy Chain Temperature (Humidity) Sensor**



### **Daisy Chain Infrared Spot Temperature Sensor**



#### DAISY-STARTER

Temperature object measurement range: Temperature Accuracy: Field Of View (FOV): Distance: Readings: Certified Operating temperature range: Operating humidity range: Dimensions: Housing: OU Rack mountable or Wall mountable

-70°C to +380°C (-94°F to +716°F) in PoE mode +/- 1°C from 0°C to +65°C / 32°F to 149°F 90°

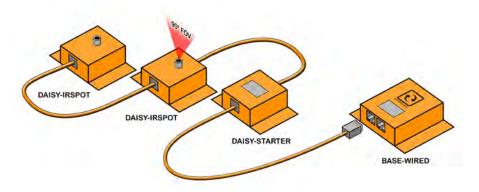
Can detect IR heat from up to approximately 30m/90ft Celsius or Fahrenheit

BASE-WIRED

-40°C to +125°C (-40°F to +257°F) in PoE mode < 90% rH (non-condensating) 74 mm (2.9") x 66 mm (2.59") x 22 mm (0.8") Orange metal case with status led

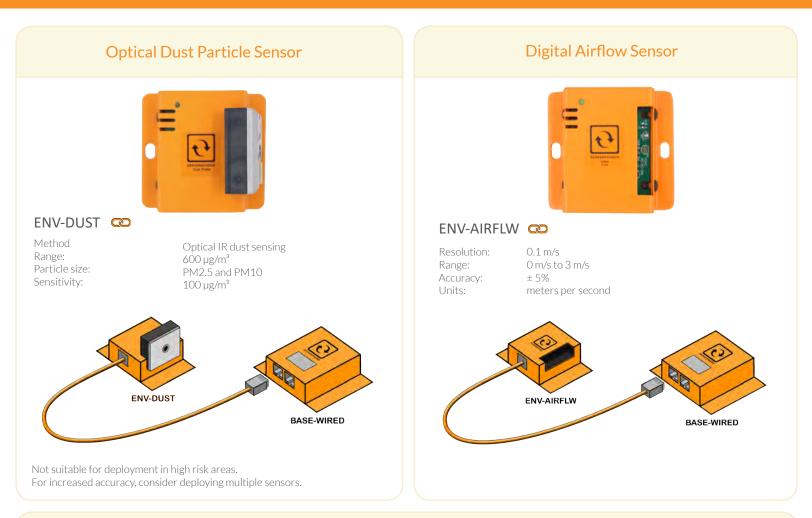
Maximum of 1x DAISY-STARTER sensor and 20x DAISY-IRSPOT per SensorGateway





### **Other Environmental Sensors**





### **Differential Air Pressure Sensor**



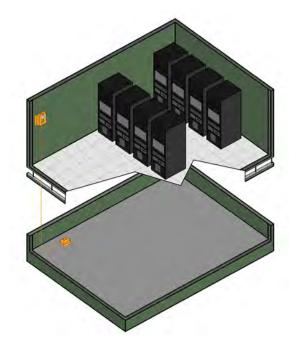
#### ENV-AIRPRESSURE 🔊

Operating humidity range: Dimensions: Housing:

Operating temperature range: 0°C to +75°C (32°F to +167°F) in PoE mode < 90% rH (non-condensating) 70mm (2.7") x 88mm (3.4") x 22mm (0.8") Orange metal casing with one LED status indicators

Digital air pressure meter - Accuracy: 0.5 Pa

- Air Pressure Range: -500 to + 500 Pa
- Flow polling rate: min 1 second





### **Other Environmental Sensors**

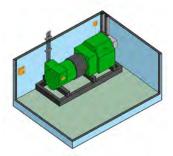
#### Indoor Air Quality Sensor



#### ENV-TVOC 🔊

Operating temperature range: Operating humidity range: Sensing range:

0 to 50°C 5 to 95% rH (non-condensating) 450 – 2000 ppm CO2 equivalents 125 - 600 ppb TVOC equivalents

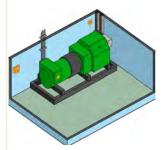


#### **Digital Multiple Gas Sensor**



#### ENV-GAS-XXXX 🔊

Measurement units: Maximum number of gas sensor: Available gas type sensors:



Ammonia NH3 Carbon Dioxide Carbon Monoxide Chlorine Chlorine Dioxide Ethylene Ethylene Oxide Formaldehyde Hydrogen (0-100% LEL) H2 0-40,000 ppm Hydrogen Chloride Hydrogen Cyanide Hydrogen Fluoride ΗF Hydrogen Sulfide Methane & LNG Methyl Mercaptan Nitric Oxide Nitric Dioxide 02 Oxygen 03 Ozone Phosphine Propane Sulphur Dioxide

ppm (particles per million)

up to 4 different gas types

0-5,000 ppm CO2 300-10,000 ppm CO 0-1,000 ppm CL2 0-100 ppm CLO2 0-50 ppm C2H4 0-100 ppm eto 0-500 ppm CH2O 0-10 ppm HCL 0-50 ppm HCN 0-50 ppm 0-10 ppm H2S 0-200 ppm CH4 300-10,000 ppm CH3SH 0-10 ppm NO 0-250 ppm NO2 0-300 ppm 0-25 % VOL 0-20 ppm PH3 0-1,000 ppm CH3SH 300-10,000 ppm SO2 0-200 ppm

### Hydrogen (H2) Sensor



#### ENV-H2 📿

Operating temperature range: Operating humidity range: Pressure range: Dimensions:



Housing:

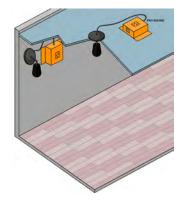


### Digital sound & noise level (dbA) sensor



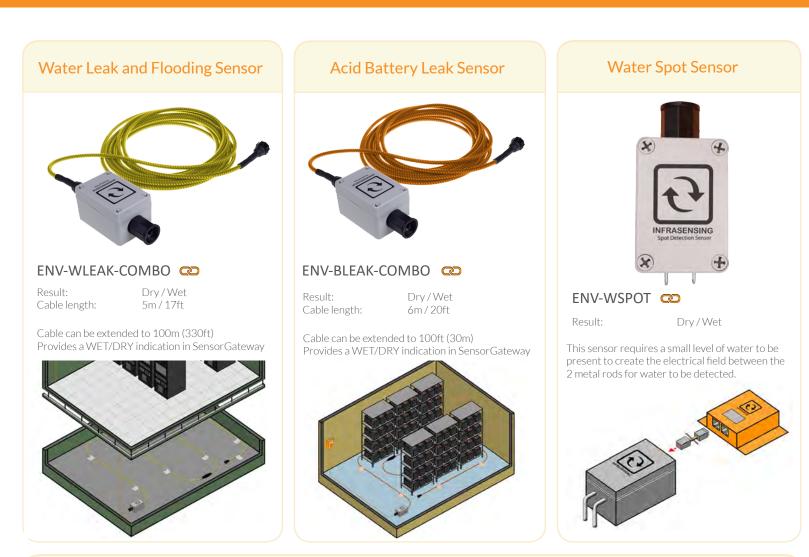
#### ENV-NOISE 📀

Range: Accuracy: 25 to 130db ±0.5 dB



## **Liquid Leak Sensors**





### **Fuel Leak Detection Sensor**



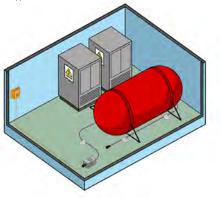
#### ENV-FLEAK-COMBO

Operating humidity range: Sensor Housing Dimensions: Sensor Housing Material: Fuel Leak Detection Cable:

Operating temperature range: 0°C to +75°C (32°F to +167°F) in PoE mode < 90% rH (non-condensating) 65mm (2.5") x 95mm (3.74") x 55mm (2.16") IP 65 plastic housing 6 meters / 20ft cable (single use only)

Cable can be extended to 100m (330ft) Cable cannot be reused after detection and should be replaced Provides a WET/DRY indication in SensorGateway

| Fuel Type      | Typical response time<br>at 20°C (68°F) |
|----------------|---|
| #1 diesel fuel | 60 minutes                              |
| #2 diesel fuel | 120 minutes                             |
| Gasoline       | 12 minutes                              |
| JP5 jet fuel   | 70 minutes                              |
| JP8 jet fuel   | 50 minutes                              |
| Jet-A jet fuel | 50 minutes                              |



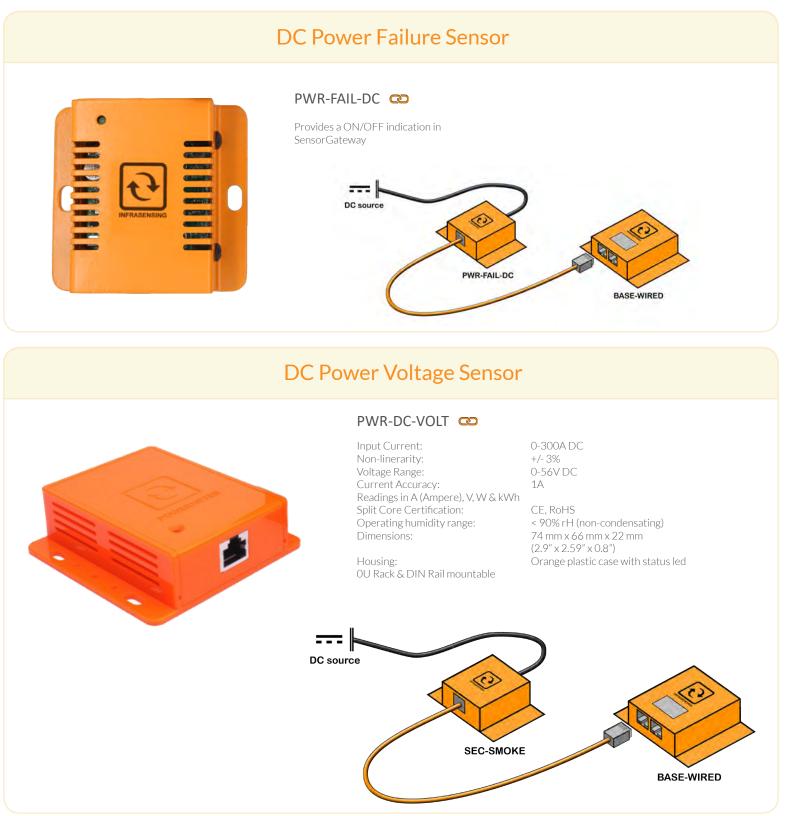


### **AC Single Phase Sensors**



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### **DC Power Sensors**





### **Power Monitoring Sensors**

### Low Voltage DC Power Meter



### **Power Monitoring Sensors**

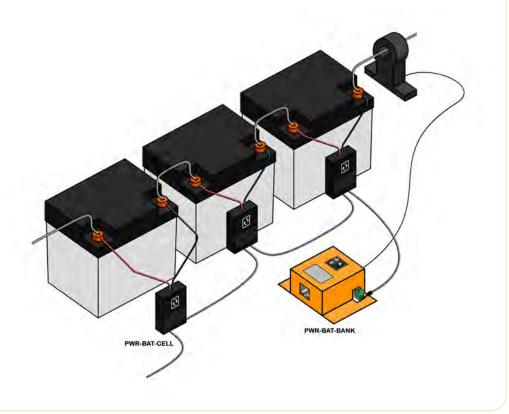
### **Battery Monitoring**

### Battery Monitoring System (BMS)



#### PWR-BAT-CELL

- measures temperature, voltage & resistance of cells
- for 2V, 6V or 12V cells
- measures battery string voltage
- measures battery string charge and discharge current
- monitor for gas leaks from battery cells
- plugs into the base unit.
- powered by the base unit.
- OU Rack or wall mountable sensor.
- alerts via SNMP Traps, email, SMS or voice calls.





### **Ultrasonic Fuel Level Sensor**

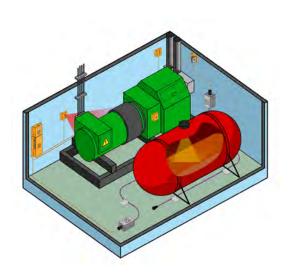


#### PWR-FUEL 🔍

Sensor Temperature Operating Range: 4°C to 65°C (39F to 148F) Measurement method: Tank depth: Accuracy Distance: Mounting:

Environmental temperature: Chemical resistance: Tank type style:

Acoustic sonic measurement 0-2000 mm (6.5 ft) 0-2000 mm (6.5 ft) at 2 mm accuracy SAE 5 stud mounting pattern with gasket, seal and screws (top mount only) 4-65 deg C Petrol, diesel Metal and plastic with non linear capacity



### **Ground Monitoring**

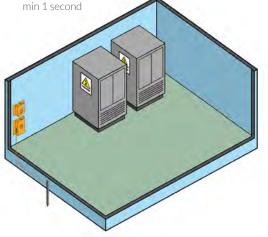


#### PWR-GROUND 📿

Operating temperature range: Operating humidity range: Dimensions: Housing:

7x ground metering points Resolution: Range: Accuracy: Units: Contact polling rate: Requires use of fuse cables 0°C to +75°C (32°F to +167°F) in PoE mode < 90% rH (non-condensating) 70mm (2.7") x 88mm (3.4") x 22mm (0.8") Orange metal casing with LED status indicators

1 Ohm 0-1000 Ohm ± 5% Ohm min 1 second



### **Security Sensors**



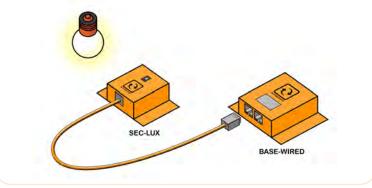
### Light Sensor



#### SEC-LUX 🔊

Resolution: Range: Operating Temperature:

1 Lux 0 to 65000 Lux -40°C to 85°C (-40°F to 185°F)



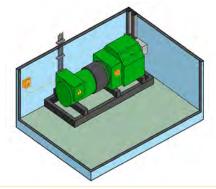
### Digital Shock / Vibration Sensor



#### SEC-SHOCK 🔊

Vibration unit:G forceNominal value:1GSensor sensitivity:0.18GDimensions:74mmHousing:OrangeOU Rack mountable

G force ±2G 1G 0.18G 74mm (2.9") x 66mm (2.59") x 22mm (0.8") Orange metal case with status led



SEC-DOOR

BASE-WIRED

### **Door Contact Sensor**



#### SEC-DOOR 🔊

Magnetic door contact sensor with self-adhesive or screw mount Returns OPEN or CLOSE state 0.15" (0.4m) cable from door contact to probe



### **Security Sensors**

#### **Smoke Sensor**



#### SEC-SMOKE 🔊

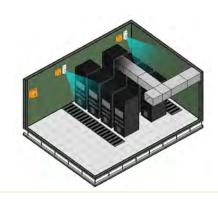
Photoelectric smoke detection Built-in Drift Compensation Reduces False Alarms Self-diagnostics Meets NFPA 72 Sensitivity Testing Requirements without the Need for External Meters



**Motion Sensor** 

#### SEC-MOTION 🔊

Radiated RF immunity: Conducted RF immunity: Static immunity: Transient immunity: Walk detection speed: Coverage angle (wall/wall lens): Vertical adjustment: Mounting heights: 20 V/m with 80% AM over range, 27MHz to 1.0GHz 10V with 80% AM over range 150kHz to 80MHz 15 kV 2.4 kV @ 1.2 joules 0.5's to 10's (0.15 m/s to 3 m/s) 100 maximum +2 to -5 7' to 10.5' / 2.1m to 3.2m (nominal 7.5' / 2.3m)

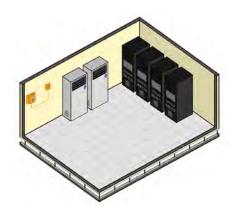


### Sound & Noise Level Sensor



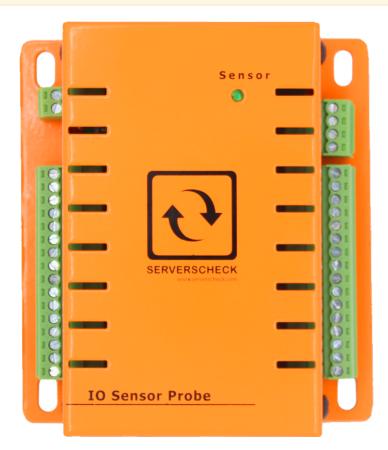
### SEC-SOUND 🔊

Resolution: Range: Accuracy: 0.01db 10 to 90db 1 dB





### **IO - Dry Contact Sensor**





Requires the SensorGateway v4 or higher to operate • max 1 (one) IO Sensor Probe per SensorGateway



### **On-Premises Appliance**



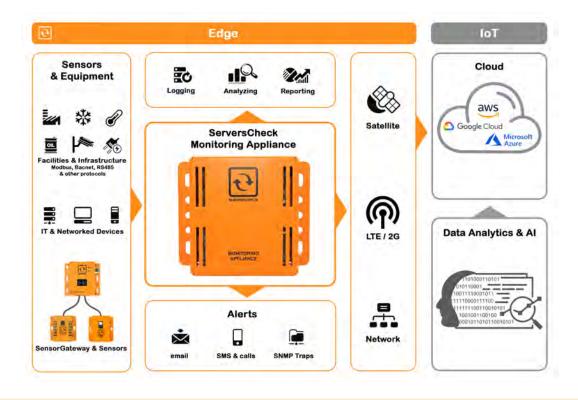


MON-TOUCH-7IN 👁

Processor (CPU): Memory (RAM): Default Storage: Optional Additional Storage: Network: Screen: Operating System: Software: Mount: AC/DC Power Adapter: PoE powered: +24V or -48V input: Intel Quad Core Atom Z8350 4GB 64GB up to 512 GB (via SD card) GB Ethernet & WiFi 7" tou Windows 10 IoT Enterprise ServersCheck Monitoring Software rack & DIN rail ✓

> optional optional







### **PRICE QUOTE & ORDER FORM**

| SKU             | Name                                    | Quantity |
|-----------------|---|----------|
| Base Unit       |   |          |
| BASE-WIRED      | SensorGateway                           |          |
| BASE-PWR        | Power Adapter for SensorGateway         |          |
| BASE-PWR-USB    | USB Power Cable for Sensorgateway       |          |
| Add-Ons         |   |          |
| ADDON-LTE       | LTE/3G/2G Cellular Add-On               |          |
| ADDON-SATELLITE | Satellite Add-On                        |          |
| ADDON-WIFI      | Wifi Add-On                             |          |
| ADDON-POE       | 24v/-48v DC Power Add-On (PoE injector) |          |
| ADDON-RTU       | Modbus RTU (Slave) Add-On               |          |
| Expansion Hubs  |   |          |
| EXP-8HUB        | SensorHub for SensorGateway             |          |
| EXP-4HUB        | Multi-Sensor & Hub                      |          |

| SKU                 | Name  | Quantity |
|---------------------|---|----------|
| Monitoring Platform |   |          |
| MON-APPLIANCE       | ServersCheck Appliance with Monitoring<br>Software          |          |
| MON-TOUCH-7IN       | ServersCheck 7" Touch Appliance with<br>Monitoring Software |          |

| SKU           | Name                                | Quantity |
|---------------|-------------------------------------|----------|
| Power Sensors |                                     |          |
| PWR-CUR       | AC Current (Power Usage) Sensor     |          |
| PWR-FAIL-AC   | AC Power Failure Sensor             |          |
| PWR-FAIL-DC   | DC Power Failure Sensor             |          |
| PWR-AC-VOLT   | AC Power Voltage (0-500v)           |          |
| PWR-DC-VOLT   | DC Power Voltage (0-50v) & Current  |          |
| PWR-DC-METER  | Low Voltage DC Power Meter          |          |
| PWR-BAT-BANK  | Battery Monitoring - Control Module |          |
| PWR-BAT-CELL  | Battery Monitoring - Battery Module |          |
| PWR-FUEL      | Ultrasonic Fuel Level Sensor        |          |
| PWR-GROUND    | Grounding Sensor                    |          |

| SKU                       | Name                    | Quantity |
|---------------------------|-------------------------|----------|
| Industrial Legacy Sensors |                         |          |
| IND-IO                    | IO - Dry Contact Sensor |          |

| SKU                | Name                                     | Quantity |
|--------------------|--|----------|
| Industrial Sensors |  |          |
| ENV-THIMG-S        | Thermal Imaging Sensor (small)           |          |
| ENV-THIMG-M        | Thermal Imaging Sensor (medium)          |          |
| ENV-THIMG-L        | Thermal Imaging Sensor (Large)           |          |
| ENV-TEMP           | Temperature Sensor                       |          |
| ENV-THUM           | Temperature and Humidity Sensor          |          |
| ENV-TSTAIN         | Stainless Steel Temperature Sensor       |          |
| ENV-TSURFACE       | Industrial Surface Temperature Sensor    |          |
| ENV-AIRFLW         | Digital Airflow Sensor                   |          |
| ENV-DUST           | Optical Dust Particle Sensor             |          |
| ENV-WLEAK-COMBO    | Water Detection & Flooding Sensor        |          |
| ENV-WLEAK-5M       | Water Detection & Flooding Cable         |          |
| ENV-FLEAK-COMBO    | Fuel Leak Detection Sensor               |          |
| ENV-FLEAK-6M       | Fuel Leak Detection Cable                |          |
| ENV-WSPOT          | Water Spot Sensor                        |          |
| ENV-GAS-XXXX       | Digital Multiple Gas Sensor              |          |
| ENV-W-TEMP         | Wireless Temperature Sensor              |          |
| ENV-H2             | Hydrogen (H2) Sensor                     |          |
| ENV-NOISE          | Digital sound & noise level (dbA) sensor |          |
| ENV-TVOC           | Indoor Air Quality Sensor                |          |
| ENV-BLEAK-COMBO    | Battery Leak Sensor Probe                |          |
| ENV-BLEAK-6M       | Battery Leak Detection Cable             |          |

| SKU                 | Name                                     | Quantity |
|---------------------|--|----------|
| Daisy Chain Sensors |  |          |
| DAISY-STARTER       | Daisy Chain Sensor Start Unit            |          |
| DAISY-TEMP          | Daisy Chained Temperature Sensor Unit    |          |
| DAISY-THUM          | Daisy Chained Temp & Humiduty Unit       |          |
| DAISY-IRSPOT        | Daisy Chained IR Spot Temperature Sensor |          |

| SKU              | Name                             | Quantity |
|------------------|----------------------------------|----------|
| Security Sensors |                                  |          |
| SEC-DOOR         | Door Contact Sensor              |          |
| SEC-SHOCK        | Digital Shock / Vibration Sensor |          |
| SEC-LUX          | Light Sensor                     |          |
| SEC-SMOKE        | Smoke Sensor                     |          |
| SEC-MOTION       | Motion Sensor                    |          |
| SEC-SOUND        | Noise triggered security sensor  |          |



### 1 - FILL IN THE QUANTITIES NEEDED PER SKU ON THE PREVIOUS PAGE

### 2 - BILLING ADDRESS

| Billing information |                     |
|---------------------|---------------------|
| Company Name :      |                     |
| First & Last Name : |                     |
| Street address :    |                     |
| City:               | Postal (Zip) Code : |
| Country :           |                     |
| Phone :             | Email :             |

### **3 – SHIPPING ADDRESS**

| Billing information |                     |
|---------------------|---------------------|
| Company Name :      |                     |
| First & Last Name : |                     |
| Street address :    |                     |
| City:               | Postal (Zip) Code : |
| Country :           |                     |
| Phone :             | Email :             |

### 4 - PRICE QUOTE OR ORDER

SEND ME A PRICE QUOTE ORDER

### 5 - ORDER APPROVAL (leave blank for price quotes only)

| Authorize your order     |
|--------------------------|
|                          |
| Signature :              |
| First name & last name : |
| Job title:               |

### 6 - SEND THIS FORM

You can send this form by email to hello@serverscheck.com or by fax to +1-800-520-4393 Please allow 2-3 business days for processing your form.