PRODUCT CATALOGUE

Simply smart monitoring
Anywhere. Everywhere.

JANUARY 2022

SensorGateway

BASE-WIRED 🔗

Display	OLED
Web Server:	HTTP
Security:	Built-in Firewall
Built-In Alerting:	email, SNMP Traps, SMS, call
Protocols:	SNMP v1,v2,v3
	Modbus TCP
	XML, JSON
	Optional MQTT, Modbus RTU
Network:	IPv4 at 10/100 Mbps
External Probes:	2 optional probes
PoE:	IEEE 802.3af
Power Adapter:	12V DC

Operating Conditions

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

Embedded Temperature Sensor

Resolution:	0.1°C / 0.18°F
Accuracy:	± 1°C (± 2°F) over 0°C to +75°C / 32°F to 167°F

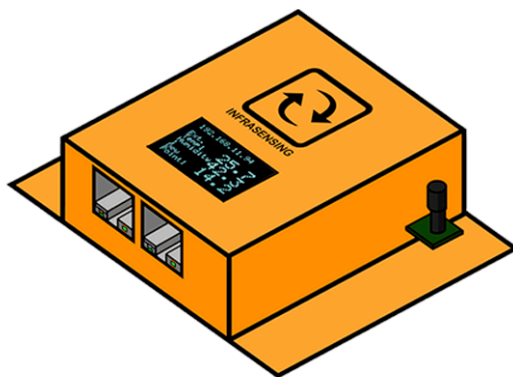Built-in webserver for phone, tablet & PC — BUILT-IN WEBSERVER

Built-in OLED display — OLED Display

MQTT — CLOUD

Modbus RTU Industrial Control Systems — ICS

SNMP integration and Modbus for BMS tools — BMS

DHCP or Static IP — NETWORK

PoE or DC Powered — POWER
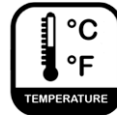
Built-in Temperature Sensor — TEMPERATURE

Built-in alerts via email, voice call & SMS — BUILT-IN ALERTS
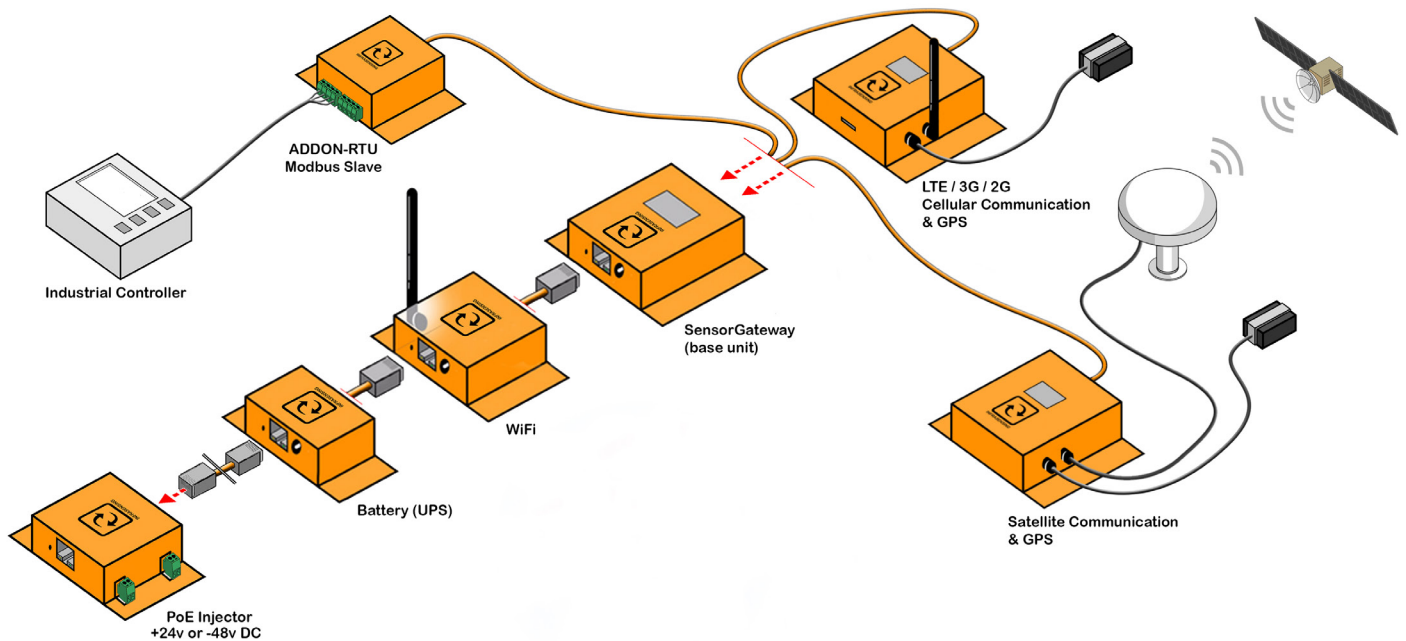
The Sensorgateway, the base unit, requires by default a network cable and 12v DC or POE power input with network based alerting.

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.
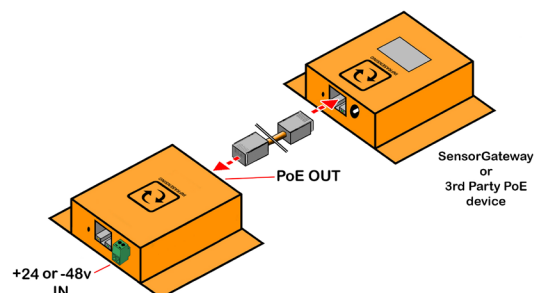

Industrial PoE+ Injector Add-On

ADDON-POE 🔗

Power In:	24v or -48v DC
Power Out:	48v DC (max 22W)
PoE:	IEEE 802.3at Mode B
	10/100 Mbps network speed
Temperature Operating Range:	0°C to +75°C (32°F to +167°F)
AddOn Housing Dimension:	60 mm x 80 mm x 20 mm
	(2.75" x 3.74" x 0.78")
AddOn Housing Material:	metal

For ordering or more information, please visit our website at https://store.serverscheck.com or contact us at hello@serverscheck.com

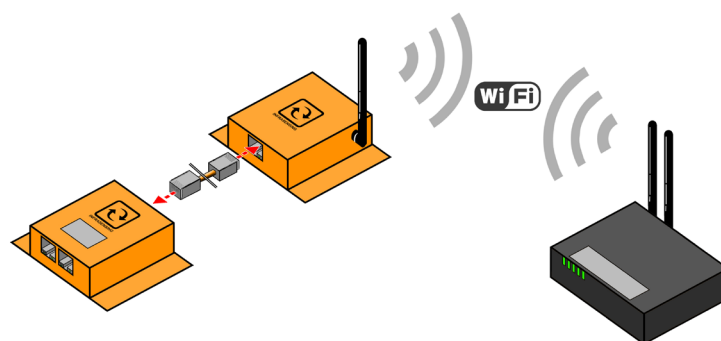## Wifi Add-On

ADDON-WIFI

|	
Wifi Frequency:	2.4 GHz
Wifi Standards:	802.11 b/g/n
Temperature Operating Range:	0°C to +75°C (32°F to +167°F)
Housing Dimensions:	70 mm (2.75") x 95 mm (3.74") x 20 mm (0.78")
Housing Material:	metal

LTE/3G/2G Cellular Add-On

ADDON-LTE

|	
Power Source:	SensorGateway (BASE-WIRED)
Power Usage:	2800 mW
LTE FDD:	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
LTE TDD:	B38/B39/B40/B41
WCDMA:	B1/B2/B4/B5/B6/B8/B19
GSM:	B2/B3/B5/B8
SIM:	Micro SIM
Optional Positioning:	GPS
Wireless Module:	Quectel wireless module embedded
Operating temperature range:	-40°C to +85°C (-40°F to +185F)
Operating humidity range:	< 90% rH (non-condensating)
Dimensions:	95 mm (3.7") x 84 mm (3.3") x 27 mm (1.0")
Weight:	0.24 kgs (0.53lbs.)
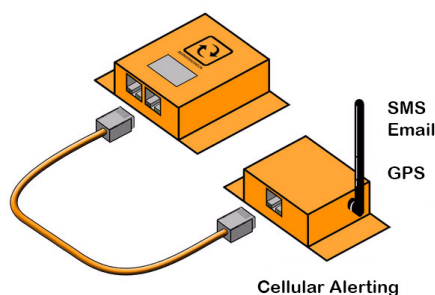
Satellite Add-On

ADDON-SATELLITE 🔗

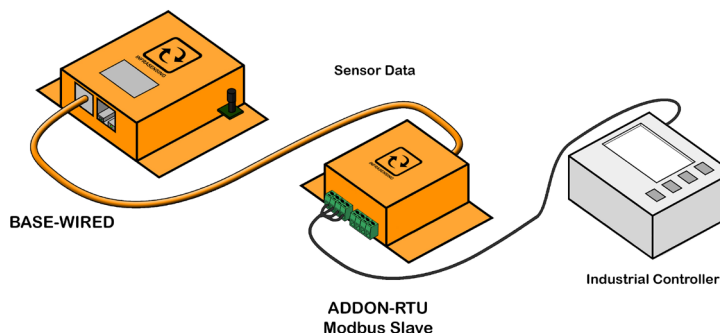|	
Frequency:	1616 to 1626.5 MHz
Latency:	<20 secs
Position:	GPS, GALILEO
Satellite Network:	Iridium
Regulatory Approval:	FCC, CE, IC, RED, ANATEL, AUSTRALIA
Temperature Operating Range:	-40°C to +85°C (-40°F to +185F)
Connection:	Connects to a sensor port of the base unit or expansion hub
Power:	Powered by the base unit

Modbus RTU (Slave) Add-On

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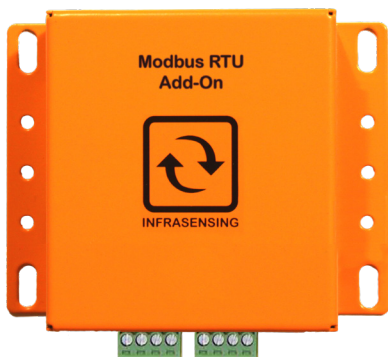
Connected like a sensor, behind the base unit
Surge protection on the RS-485 data line
3000 VDC Isolation protection
Operates as a Modbus RTU Slave
One RS485 bus
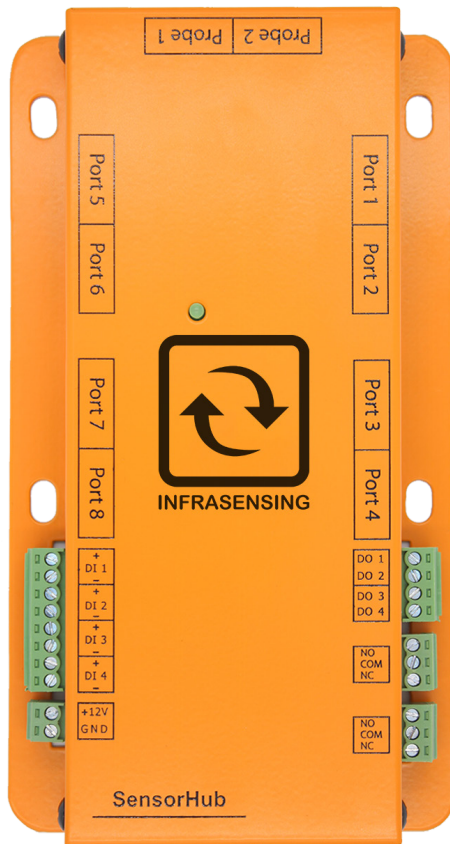1 Device IN and 1 Device OUT terminal block.

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

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Sensorhub for SensorGateway


EXP-8HUB 🔗

Expansion ports for external sensor probes:	8
Dry contact input ports:	4
Dry contact output ports:	2 (digital sink 100mA)
Relay outputs:	2 (400VAC/150VDC and 200VA/192W)
Auxillary supply:	maximum current capacity of 500mA at 9 to 12 VDC
Power consumption:	650 milliWatts
Dimensions:	165 mm (6.5") x 95 mm (3.7") x 22 mm (0.8")
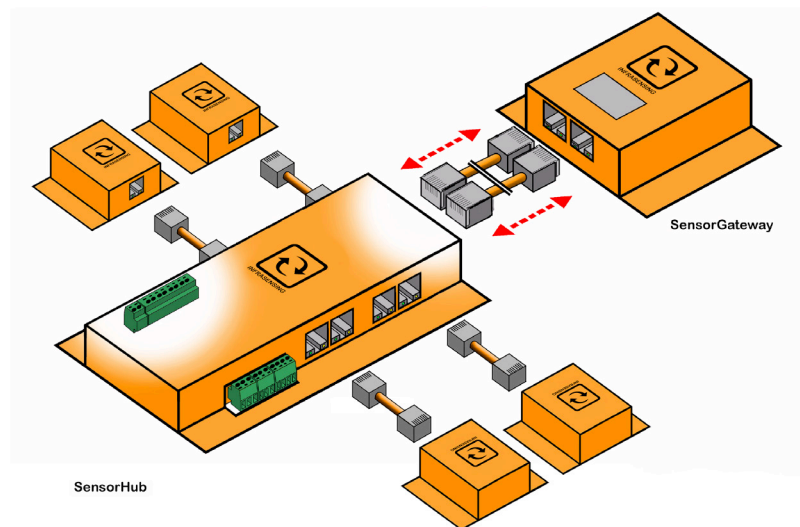
One Expansion Hub or any Extension modules may be used per Sensorgateway (base unit)

Wireless Hub & Nodes
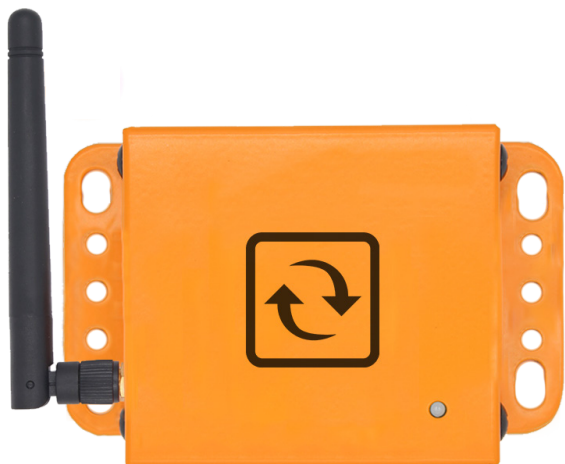
EXP-LWHUB 🔗

Communication protocol:	LoRa point to point
Max distance with line of sight:	2km or 1.2 miles
Regulatory approval:	FCC, CE
Multiple frequencies for different regions:	EU868, US916
Sensor nodes per wireless hub:	20
Wireless hubs per base unit:	1
Operational temperature:	-40° to +85°C(-40° to +185F)

0U rack mountable
DIN Rail mountable with optional DIN Clips
metal steel enclosure

NODE-LW-1P 🔗

|	
Continuous power:	12v DC, 24v DC, 5v (USB-C)
Battery power:	3x AAA batteries - user changeable
Sensors support wireless node:	1
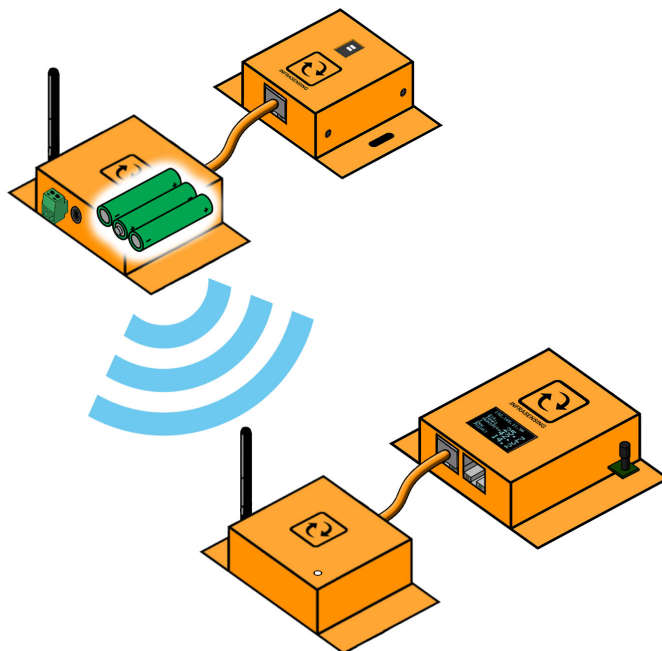
Multi-Sensor & Hub

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 & 5m/16 ft sensing cable

EXP-4HUB 🔗

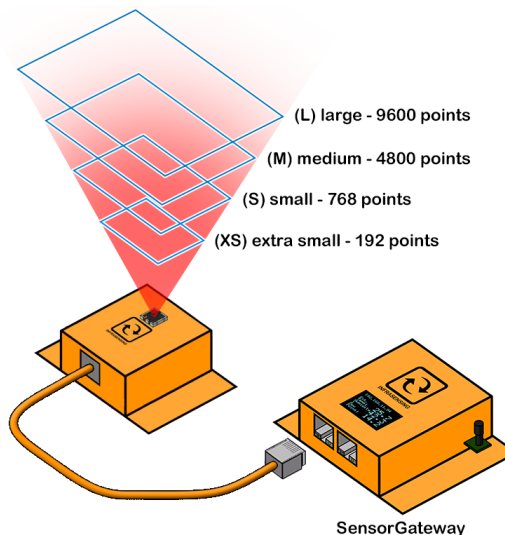|	
Expansion ports for external sensor probes:	4 digital and 1 analog sensor
Dry contact input ports:	8
Dry contact output ports:	4 (digital sink 100mA)
Auxillary supply:	maximum current capacity of 500mA at 9 to 12 VDC
Power consumption:	650 milliWatts
Dimensions:	160mm (6.3") x 165mm (6.5") x 60mm (2.4")
Housing:	Orange metal casing with one LED status indicators
Operating temperature range:	0°C to +75°C (32°F to +167°F) in PoE mode
Specifications of on board sensors:	
Temperature Resolution:	0.1°C (0.18)°F precision
Temperature Accuracy:	± 0.5°C (± 0.9 °F) over 0°C to +60°C
Readings in Celsius or Fahrenheit	
Relative Humidity Measurement Range:	0 to 100 % RH
Relative Humidity Resolution or precision:	0.1 % RH and 1 % RH
Relative Humidity Accuracy:	± 2 % RH between 10 % RH to 90 % RH and ± 4 % RH below 10 % RH and above 90 % RH
Relative Humidity Long Term Stability:	< 1 % RH/year
Sound (db) Resolution:	1 db precision
Luminosity Resolution:	0.5 Lux precision
Vibration unit:	G force
Minimum value:	1G
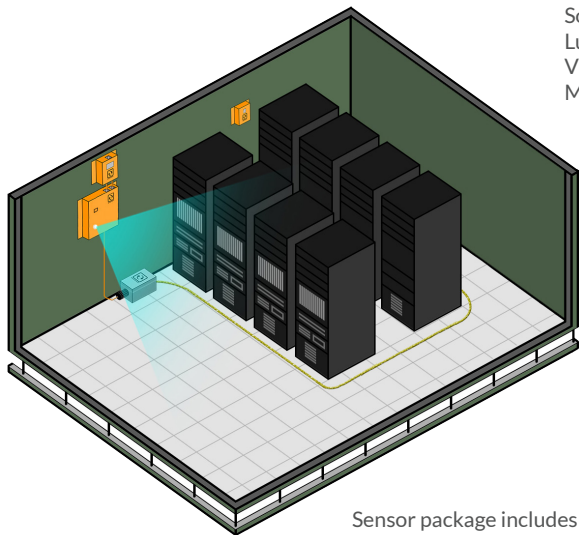
One Expansion Hub or any Extension modules may be used per Sensorgateway (base unit)
Sensor package includes the EXP-4HUB, Smoke sensor (via dry contacts) and water leak sensor with leak sensing cable

Thermal Image Camera Sensor

(L) large - 9600 points
(M) medium - 4800 points
(S) small - 768 points
(XS) extra small - 192 points

SensorGateway

ENV-THIMG-(XS,S, M, L) 🔗

	X-Small	Small	Medium	Large
Image Resolution				
Part Number	ENV-THIMG-XS	ENV-THIMG-S	ENV-THIMG-M	ENV-THIMG-L
Object Temperature	-40°C to 300°C	-40°C to 300°C	0°C to 120°C	0°C to 120°C
Thermal Image Size	768 pts	768 pts	4800 pts	9600 pts
	(16 x 12 pixels)	(32 x 24 pixels)	(80 x 60 pixels)	(160 x 120 pixels)
Temperature Reporting	min & max temp	min & max temp	min & max temp	min & max temp
Horizontal Field of View	110° (wide)	110° (wide)	51° (narrow)	56° (narrow)
Vertical Field of View	75°	75°	63°	71°
Accuracy	±1°C	±1°C	±5°C	±5°C

Temperature & Humidity Sensor

ENV-THUM 🔗

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

Humidity Specs
Resolution: 0.1% RH
Range: 0% to 100% RH
Accuracy: ± 2% between 10% and 90%RH
                  ± 4% <10% and >90% RH

Temperature Sensor

ENV-TEMP 🔗

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

Infrared Spot Temperature Sensor

ENV-IRSPOT 🔗

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

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Stainless Steel Temperature Sensor

ENV-TSTAIN 🔗

Resolution:	0.1℃ / 0.18°F
Range:	-55℃ to +125℃ / 14°F to 185°F
Accuracy	± 0.5℃ from -10℃ to +85℃
	± 1°F from 14°F to 185°F
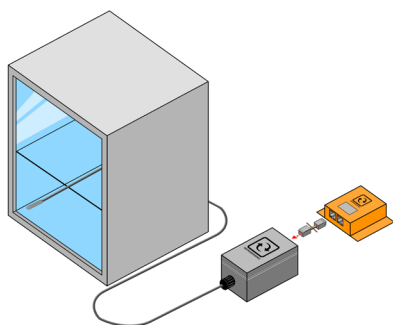
Industrial Surface Temperature Sensor

ENV-TSURFACE 🔗

Resolution:	0.1℃ / 0.18°F
Reading:	-55℃ to +125℃ (-67°F to +257°F)
Accuracy	± 0.5℃ (+/- 0.9 °F) from 0℃ to +85℃
	± 1℃ for other ranges
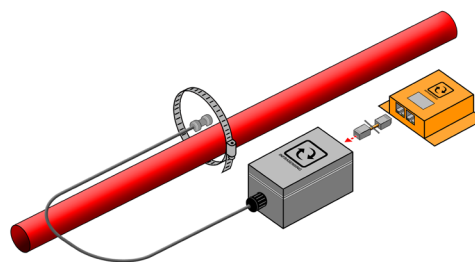
Ultra Low Temperature Sensor

ENV-TULTRA 🔗

Power Source:	SensorGateway (BASE-WIRED)
Power Usage:	60 mW
Readings:	Celsius or Fahrenheit
Temperature Precision:	±0.1℃ (0.18)°F
Temperature Accuracy:	±1℃ (1.8°F)
Temperature Reading:	-196℃ to +75℃ (-320°F to +167°F)
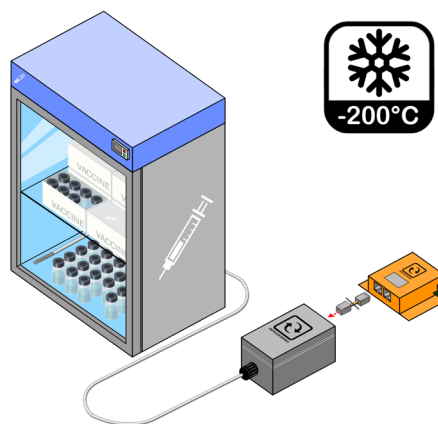
Daisy Chain Temperature (Humidity) Sensor

DAISY STARTER 🔗

**DAISY-TEMP** 🔗
DAISY-THUM 🔗

Temperature Resolution:	0.1°C (0.18)°F precision
Temperature Accuracy:	±0.5°C (+/- 0.9 °F) from -10°C to +85°C / 14°F to 185°F
Temperature Reading:	-55°C to +125°C (-67°F to +257°F)
Readings in Celsius or Fahrenheit	0°C to +75°C (32°F to +167°F)
Certified SensorGateway operating temperature range:	in PoE mode < 90% rH (non-condensating)
Operating humidity range:	74 mm (2.9") x 66 mm (2.59") x 22 mm (0.8")
Dimensions:	Orange metal case with status led
Housing:	

0U Rack mountable
Maximum of 1x DAISY-STARTER and 20x DAISY-TEMP (or 20 x DAISY-THUM) per SensorGateway
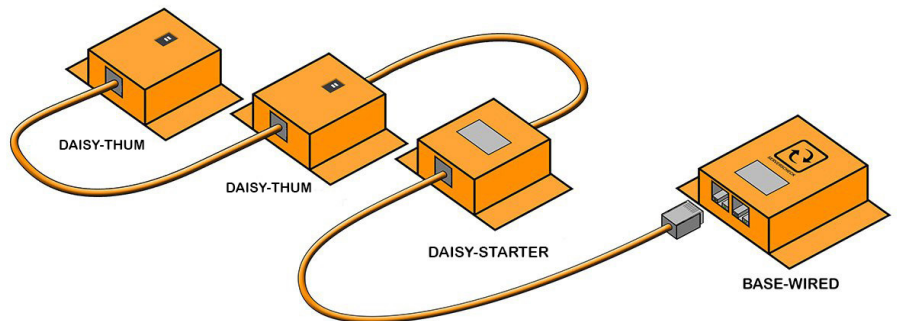
## Daisy Chain Infrared Spot Temperature Sensor

DAISY-STARTER 🔗

DAISY-IRSPOT 🔗

Temperature object measurement range:	-70°C to +380°C (-94°F to +716°F) in PoE mode
Temperature Accuracy:	+/- 1°C from 0°C to +65°C / 32°F to 149°F
Field Of View (FOV):	90°
Distance:	Can detect IR heat from up to approximately 30m/90ft
Readings:	Celsius or Fahrenheit
Certified Operating temperature range:	-40°C to +125°C (-40°F to +257°F) in PoE mode
Operating humidity range:	< 90% rH (non-condensating)
Dimensions:	74 mm (2.9") x 66 mm (2.59") x 22 mm (0.8")
Housing:	Orange metal case with status led

0U Rack mountable or Wall mountable
Maximum of 1x DAISY-STARTER sensor and 20x DAISY-IRSPOT per SensorGateway
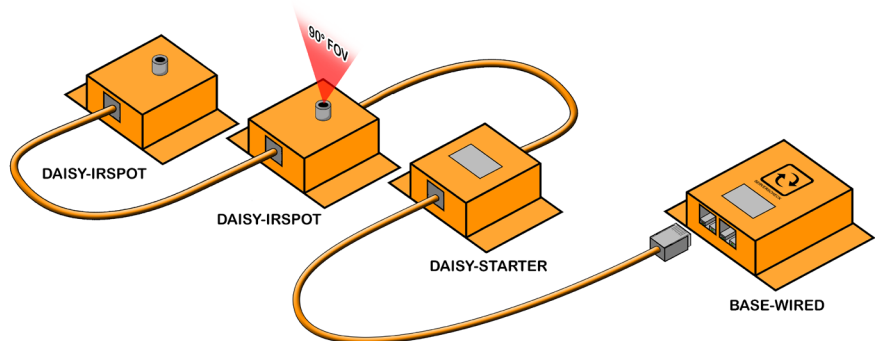
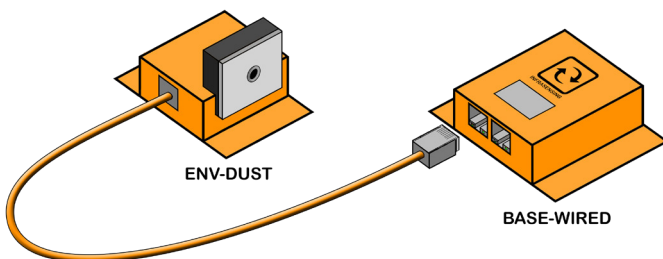## Optical Dust Particle Sensor

ENV-DUST 🔗

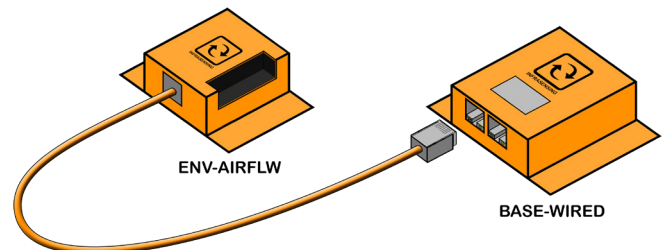|	
Method	Optical IR dust sensing
Range:	600 μg/m³
Particle size:	PM2.5 and PM10
Sensitivity:	100 μg/m³

ENV-DUST

BASE-WIRED

Not suitable for deployment in high risk areas.
For increased accuracy, consider deploying multiple sensors.

Digital Airflow Sensor

ENV-AIRFLW 🔗
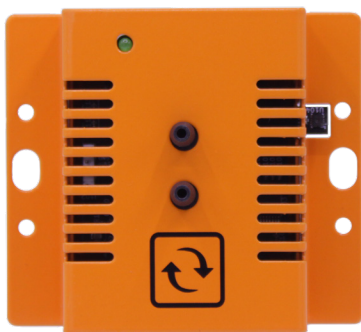
Resolution:	0.1 m/s
Range:	0 m/s to 3 m/s
Accuracy:	± 5%
Units:	meters per second

ENV-AIRFLW

BASE-WIRED

Differential Air Pressure Sensor

ENV-AIRPRESSURE 🔗

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

Digital air pressure meter
- Accuracy: 0.5 Pa
- Air Pressure Range: -500 to + 500 Pa
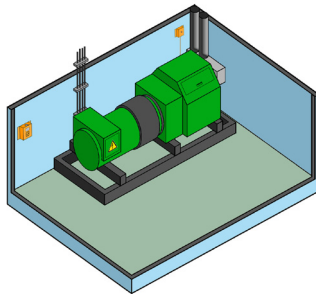- Flow polling rate: min 1 second
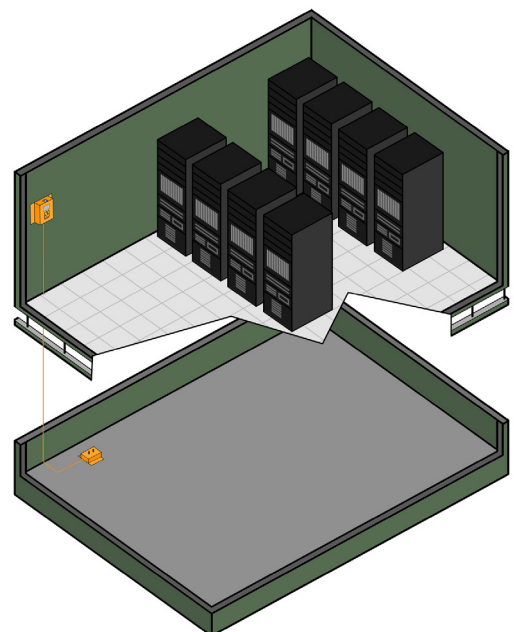
Indoor Air Quality Sensor

ENV-TVOC

Operating temperature range: 0 to 50°C
Operating humidity range: 5 to 95% rH (non-condensating)
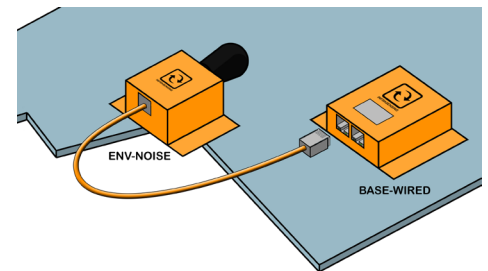Sensing range: 450 – 2000 ppm CO_2 equivalents
   125 – 600 ppb TVOC equivalents

Digital sound & noise level (dbA) sensor

ENV-NOISE

Range: 30 - 120dB
Accuracy: ±0.5 dB

ENV-NOISE   BASE-WIRED

Particle Sensor

ENV-PARTICLE

Power source:	SensorGateway (BASE-WIRED)
Power usage:	156 mW
Mass concentration range:	0 – 1000 µg/m³
Particle detection size range:	
Mass concentration:	PM1.0, PM2.5, PM4 and PM10
Number concentration:	PM0.5, PM1.0, PM2.5, PM4 and PM10
Mass concentration resolution:	1 µg/m³
Mass concentration precision:	
PM1 and PM2.5:	±10 µg/m³ @ 0 to 100 µg/m³
	±10 % @ 100 to 1000 µg/m³
PM4 and PM10:	±25 µg/m³ @ 0 to 100 µg/m³
	±25 % @ 100 to 1000 µg/m³
Maximum long-term mass concentration precision limit drift:	±1.25 µg/m3 @ 0 to 100 µg/m³
	±1.25 % @ 100 to 1000 µg/m³
Lower limit detection:	0.3 µm
Lifetime:	10 years operating continuously 24hrs/day
Acoustic emission level:	25dB(A) @ 0.2m
Long term acoustic emission level drift:	+0.5dB(A)/year @ 0.2m
Sampling interval:	1 ± 0.04s

For ordering or more information, please visit our website at https://store.serverscheck.com or contact us at hello@serverscheck.com
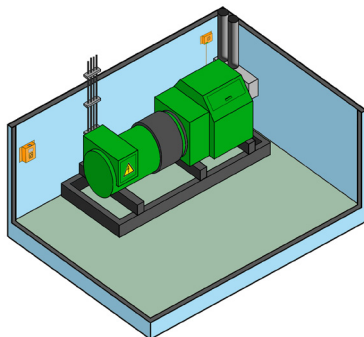
Digital Gas Sensors

ENV-GAS-XXXX 🔗

This sensor is designed for detecting the presence and level of specific gas concentrations in critical facilities.

A sensor is assembled and programmed to detect one of the 21 different gas types we support: C2H4, CH2O, CH3SH, CH4, CL2, CLO2, CO, CO2, ETO, H2, H2S, HCL, HCN, HF, NH3, NO, NO2, O2, O3, PH3, SO2, R134a

no pc required for the ServersCheck to operate once configured - measures gas in particles per million (ppm)

- compact plug & play sensor.
- designed for indoor use.
- steel enclosure.
- industrial grade.
- 0u rack, DIN rail or wall mountable sensor.
- plugs into the base unit.
- powered by the base unit.
- alerts via SNMP Traps, email or SMS.
- wired or optionally wireless.
- integrates over IP using Modbus TCP, SNMP, XML, JSON.
- optional RS-485 version available to integrate with your own gateway or controller.
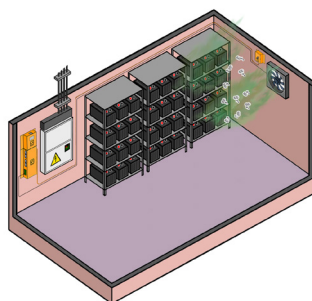
Measurement units: ppm (particles per million)

Available gas type sensors:

Ammonia	NH3	0-5,000 ppm
Carbon Dioxide	CO2	300-10,000 ppm
Carbon Monoxide	CO	0-1,000 ppm
Chlorine	CL2	0-100 ppm
Chlorine Dioxide	CLO2	0-50 ppm
Ethylene	C2H4	0-100 ppm
Ethylene Oxide	ETO	0-500 ppm
Formaldehyde	CH2O	0-10 ppm
Hydrogen (0-100% LEL)	H2	0-40,000 ppm
Hydrogen Chloride	HCL	0-50 ppm
Hydrogen Cyanide	HCN	0-50 ppm
Hydrogen Fluoride	HF	0-10 ppm
Hydrogen Sulfide	H2S	0-200 ppm
Methane & LNG	CH4	300-10,000 ppm
Methyl Mercaptan	CH3SH	0-10 ppm
Nitric Oxide	NO	0-250 ppm
Nitric Dioxide	NO2	0-300 ppm
Oxygen	O2	0-25 % VOL
Ozone	O3	0-20 ppm
Phosphine	PH3	0-1,000 ppm
Propane	CH3SH	300-10,000 ppm
Sulphur Dioxide	SO2	0-200 ppm

Carbon Dioxide (CO2) Sensor

ENV-GAS-CO2 🔗

Power source	SensorGateway (BASE-WIRED)
Output sensitivity	6000 CO2 ppm
Range	0-5% vol
Accuracy	±5%
Operating temperature range	-20°C to 60°C (-4°F to +140°F)
Operating Humidity	0% to 95% rH (non-condensating)
Dimensions	71.5 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")
Weight	0.12kg (0.26 lbs.)
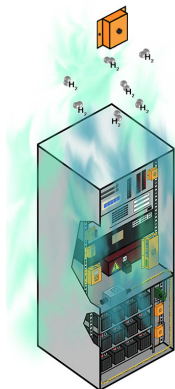
Carbon Monoxide (CO) Sensor

ENV-GAS-CO 🔗

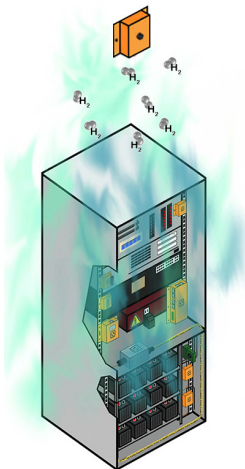|	
Power source:	SensorGateway (BASE-WIRED)
Measurement Range:	0-1000ppm
Max detecting concentration:	2000ppm
Output sensitivity:	0.070±0.015 µA/ppm
Resolution ratio:	0.5ppm
Repeatability:	<2% output value
Accuracy:	±5%
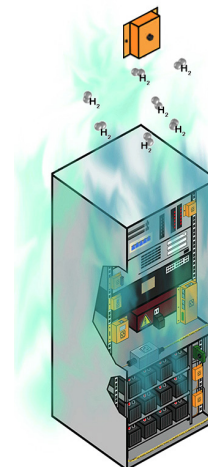
Hydrogen (H2) Sensor
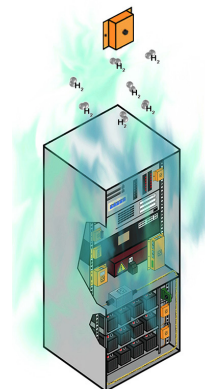
ENV-GAS-H2

Operating temperature range:	0°C to +75°C (32°F to +167°F)
Operating humidity range:	< 90% rH (non-condensating)
Hydrogen Level:	0 to 25% LEL
Resolution:	100 ppm (parts per million)
Accuracy:	±1%
Precision:	1%

Hydrogen Chloride (HCL) Sensor
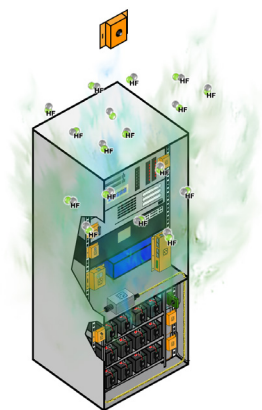
ENV-GAS-HCL

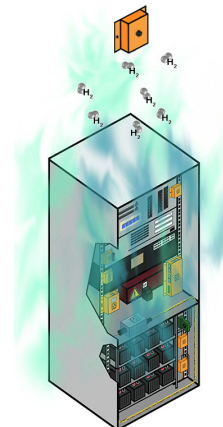|	
Power source:	SensorGateway (BASE-WIRED)
Measurement range:	0-20 ppm
Max detecting concentration:	200 ppm
Output sensitivity:	0.8-0.4 µA/ppm
Resolution ratio:	0.1 ppm
Repeatability:	<2 % output value
Operating temperature range:	-20°C to +50°C (89.6°F to +210.2°F)
Operating Humidity:	0% to 90% rH (non-condensating)
Dimensions :	71.5 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")

Hydrogen Flouride (HF) Sensor

ENV-GAS-HF

Operating temperature range:	0°C to +75°C (32°F to +167°F)
Operating humidity range:	< 90% rH (non-condensating)
Hydrogen Level:	0 to 25% LEL
Resolution:	100 ppm (parts per million)
Accuracy:	±1%
Precision:	1%

Hydrogen Sulfide (H2s) Sensor

ENV-GAS-H2S

|	
Power source:	SensorGateway (BASE-WIRED)
Measurement Range:	0-100 ppm
Max detecting concentration:	500 ppm
Output sensitivity:	0.8-0.15 µA/ppm
Resolution ratio:	0.1 ppm
Repeatability:	<2 % output value

Oxygen (O2) Sensor
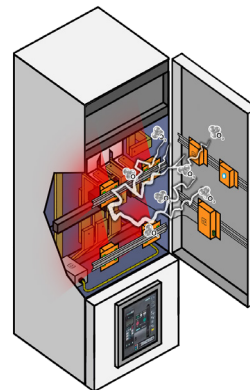
ENV-GAS-O2 🔗

Power source:	SensorGateway (BASE-WIRED)
Measurement range:	0-25%Vol
Max detecting concentration:	30% Vol
Output sensitivity:	0.1-0.3 mA (In air)
Repeatability:	<2% output value
Operating temperature range:	-20°C to +50°C (89.6°F to +210.2°F)
Operating humidity:	0% to 99% rH (non-condensating)
Dimensions:	71.5 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")
Weight:	0.12kg (0.26 lbs.)
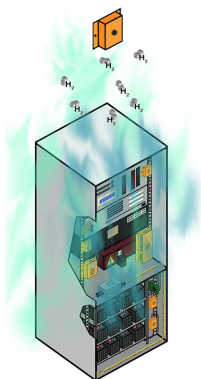
## Ozone (O3) Sensor

ENV-GAS-O3 🔗

Operating temperature range:	0°C to +75°C (32°F to +167°F)
Operating humidity range:	< 90% rH (non-condensating)
Maximum Detection:	40,000 H2 ppm (=100% LEL)
Resolution:	0.02 ppm (parts per million)

- Lab calibrated against ozone reference gas

Radon (Rn) Sensor

ENV-GAS-RADON 🔗

|	
Power Source:	SensorGateway (BASE-WIRED)
Sensitivity:	17 cph @ 100 Bq/m3
Range:	1 – 1,000,000 Bq/m³
Accuracy:	±10%
Precision:	±10% at 370 Bq/m3
Operating temperature range:	0°C to 60°C (32°F to +140°F)
Operating Humidity:	0% to 90% rH (non-condensating)
Dimensions:	71.5 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")
Weight:	0.12kg (0.26 lbs.)
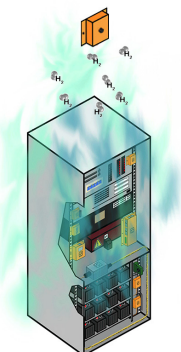
Liquid Leak Sensors

Water Leak and Flooding Sensor

ENV-WLEAK-COMBO-5M 🔗

Result: Dry / Wet
Cable length: 5m / 17ft

Cable can be extended to 200m (660ft)
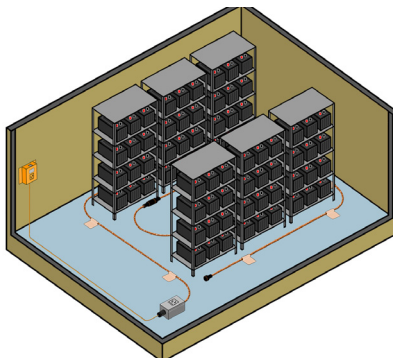Provides a WET/DRY indication in SensorGateway
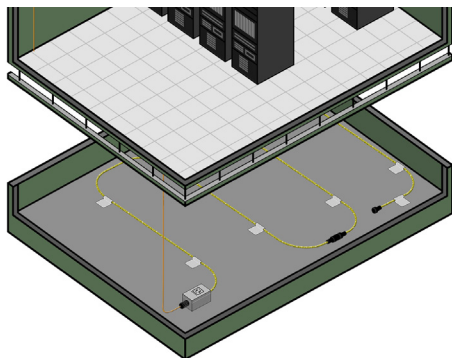
Acid Battery Leak Sensor

ENV-BLEAK-COMBO 🔗

Result: Dry / Wet
Cable length: 6m / 20ft

Cable can be extended to 100ft (30m)
Provides a WET/DRY indication in SensorGateway
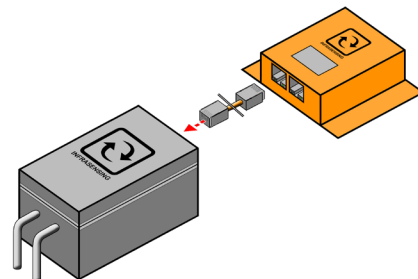

Water Spot Sensor

ENV-WSPOT 🔗

Result: Dry / Wet

This sensor requires a small level of water to be present to create the electrical field between the 2 metal rods for water to be detected.
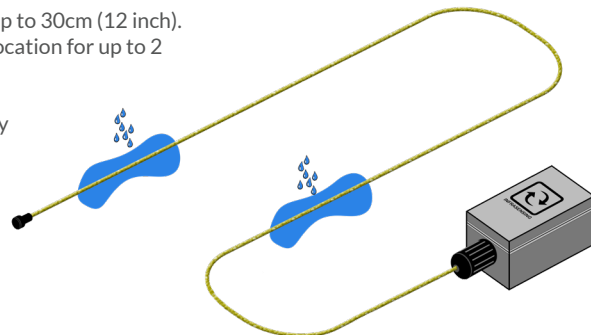

Industrial Water Leak Location Sensor

ENV-WLEAK-LOC-COMBO5 🔗

Operating temperature range: 0°C to +75°C (32°F to +167°F) in PoE mode
Operating humidity range: < 90% rH (non-condensating)
Sensor Housing Dimensions: 65mm (2.5") x 95mm (3.74") x 55mm (2.16")
Sensor Housing Material: IP 68 plastic housing
Water Leak Detection Cable: 5m/17ft reusable water sensitive cable.

Detects leaks along its cable with an accuracy of up to 30cm (12 inch).
Can detect multiple leaks at the same time, with location for up to 2 sequential leaks
Cable can be extended to 50m (150ft) per sensor
Provides a WET/DRY indication in SensorGateway

For ordering or more information, please visit our website at https://store.serverscheck.com or contact us at hello@serverscheck.com
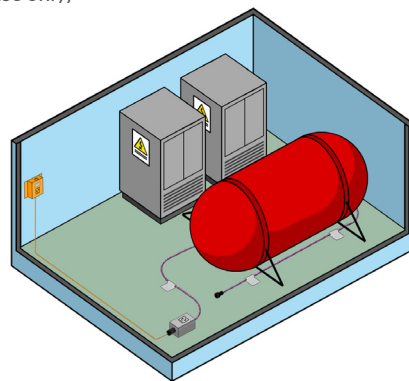
Fuel Leak Detection Sensor

ENV-FLEAK-COMBO

Operating temperature range: 0°C to +75°C (32°F to +167°F) in PoE mode
Operating humidity range: < 90% rH (non-condensating)
Sensor Housing Dimensions: 65mm (2.5") x 95mm (3.74") x 55mm (2.16")
Sensor Housing Material: IP 65 plastic housing
Fuel Leak Detection Cable: 4.5 meters / 14ft cable (single use only)

Cable can be extended to 30m (100ft)
Cable cannot be reused after detection and should be replac
Provides a WET/DRY indication in SensorGateway

Fuel Type	Typical response time 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

AC Power Failure Sensor

PWR-AC-FAIL 🔗

Provides a ON/OFF indication in SensorGateway

PWR-FAIL-AC

BASE-WIRED

AC Current Sensor

PWR-AC-CUR 🔗

Input Current: 0-100A AC
Non-linerarity: ± 3%

Resistance Grade B
Readings in A (Ampere)
Split Core Certification: CE, RoHS

PWR-CUR

BASE-WIRED

AC Power Voltage Sensor

PWR-AC-VOLT 🔗

Provides a ON/OFF indication in SensorGateway
Measures the voltage of the socket
Voltage Range: 110v - 240v

PoE Switch

PWR-AC-FAIL
or PWR-AC-VOLT

UPS

Power Quality Sensor

PWR-AC-QUAL 🔗

Voltage: 100-240V AC Single Phase
Operating Humidity Range: < 90% rH (non-condensating)
Dimensions: 135 mm (5.32") x 100 mm (3.94") x 40 mm (1.58")
Housing: Orange metal case with status OLED display
0U Rack & DIN Rail mountable

For ordering or more information, please visit our website at https://store.serverscheck.com or contact us at hello@serverscheck.com

DC Power Sensors

DC Power Failure Sensor

PWR-DC-FAIL 🔗

Provides a ON/OFF indication
in SensorGateway

DC source
PWR-FAIL-DC
BASE-WIRED
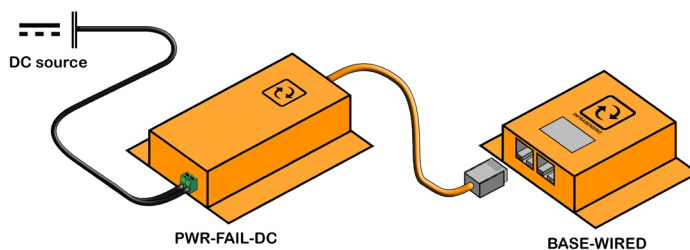
DC Power Voltage Sensor

PWR-DC-VOLT 🔗

Input Current:	0-300A DC
Non-linerarity:	+/- 3%
Voltage Range:	0-56V DC
Current Accuracy:	1A
Readings in A (Ampere), V, W & kWh	
Split Core Certification:	CE, RoHS
Operating humidity range:	< 90% rH (non-condensating)
Dimensions:	74 mm x 66 mm x 22 mm
	(2.9" x 2.59" x 0.8")
Housing:	Orange plastic case with status led
0U Rack & DIN Rail mountable	
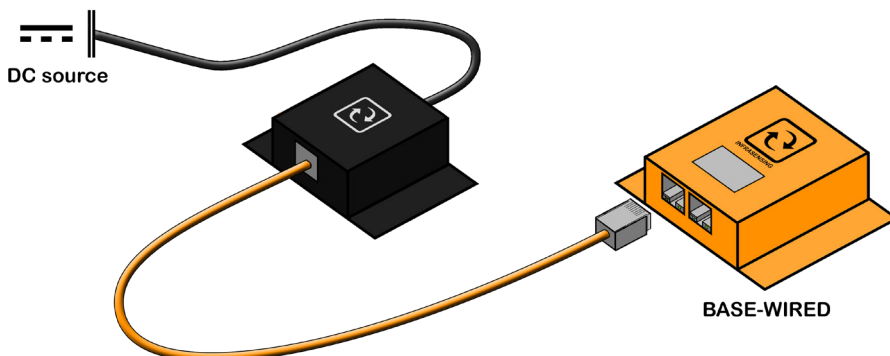
DC source
BASE-WIRED

Low Voltage DC Power Meter
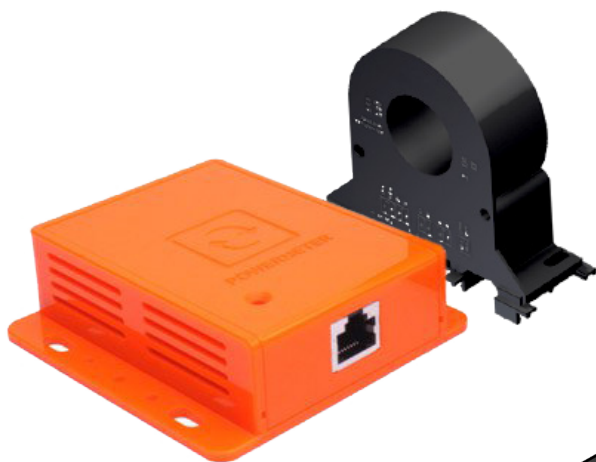
PWR-DC-METER 🔗

Power Source:	SensorGateway (BASE-WIRED)
Power Usage:	1000 mW
Input Current:	0 - 400A
Voltage:	0 - 100V DC
Accuracy:	+/- 1%
Readings in:	A (Ampere), V, W & kWh
Standards:	CE EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005 ; EN61010-1/2010
Operating temperature range:	-15°C to +65°C (5°F to +149°F)
Operating humidity range:	< 90% rH (non-condensating)
Dimensions:	89.1 mm (3.5") x 99.25 mm (3.9") x 28.5 mm (1.12")
Weight:	0.57 kgs (1.26 lbs.)

PWR-DC-METER

**BASE-WIRED**
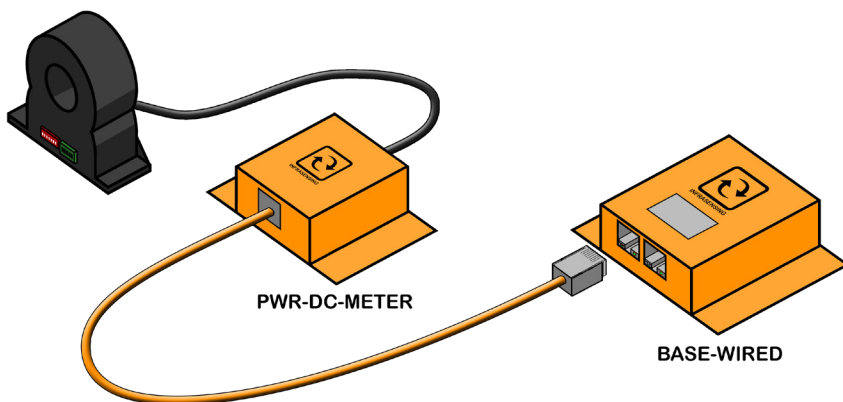
Battery Monitoring

Battery Monitoring System (BMS)


PWR-BAT-STRING 🔗

PWR-BAT-CELL 🔗

- for 2V, 6V or 12V batteries with M8 terminal connector.
- measures temperature, voltage & impedance of individual batteries
- measures battery string voltage and total impedance
- measures battery string charge and discharge current
- monitor for gas leaks from battery cells (HF, H2, CO, CO2) indicating possible thermal runaways.
- plugs into the base unit.
- powered by the base unit for up to 30 batteries. For more additional 12v PSU required.
- alerts via SNMP Traps, email, SMS or voice calls.
- wired or optionally wireless.

- integrates via Modbus TCP, SNMP, JSON with other systems through the base unit.
- optional MQTT version available to connect it to a cloud of your choice.
- optional PWR-BAT-STRING RS485 version available to directly connect the BMS to your Industrial Control Systems without needing the base unit.

PWR-BAT-CELL

PWR-BAT-STRING
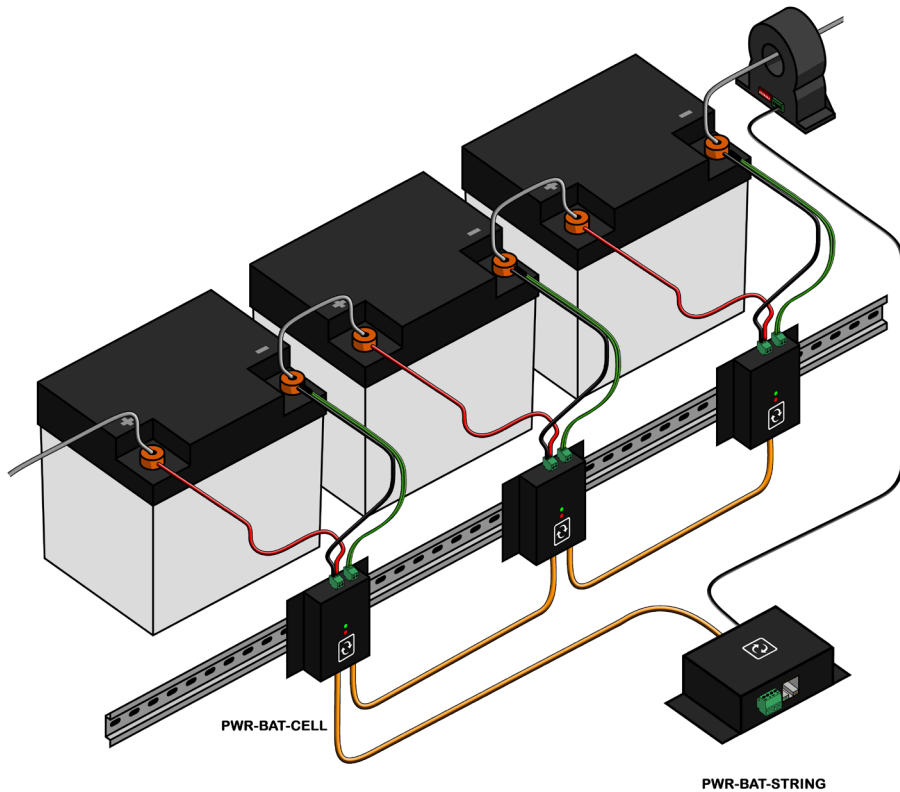
Ultrasonic Fuel Level Sensor
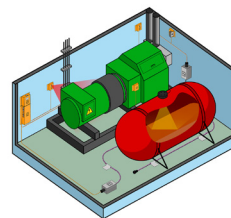
PWR-FUEL 🔗

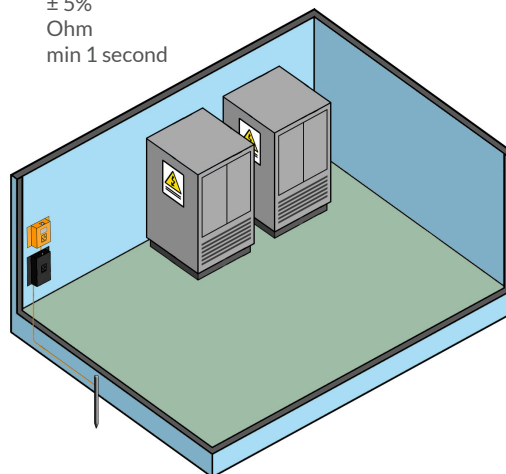|	
Sensor Temperature Operating Range:	4°C to 65°C (39F to 148F)
Measurement method:	Acoustic sonic measurement
Tank depth:	0-2000 mm (6.5 ft)
Accuracy Distance:	0-2000 mm (6.5 ft) at 2 mm accuracy
Mounting:	SAE 5 stud mounting pattern with gasket, seal and screws (top mount only)
Environmental temperature:	4-65 deg C
Chemical resistance:	Petrol, diesel
Tank type style:	Metal and plastic with non linear capacity

Ground Monitoring

PWR-GROUND 🔗

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

Monitors up to 3 different ground systems

Resolution:	0.02 Ohm
Range:	0-1000 Ohm
Accuracy:	± 5%
Units:	Ohm
Contact polling rate:	min 1 second

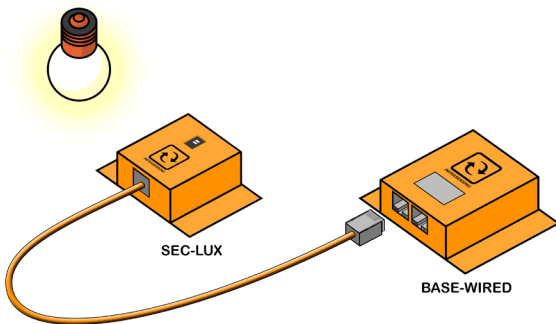Requires use of fuse cables

Light Sensor

SEC-LUX 🔗

Resolution: 1 Lux
Range: 0 to 65000 Lux
Operating Temperature: 0°C to +75°C (32°F to +167°F)
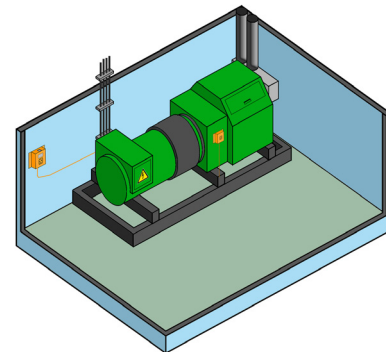

Digital Shock / Vibration Sensor

SEC-SHOCK 🔗

Vibration unit: G force ±2G
Nominal value: 1G
Sensor sensitivity: 0.18G
Dimensions: 74mm (2.9") x 66mm (2.59") x 22mm (0.8")
Housing: Orange metal case with status led
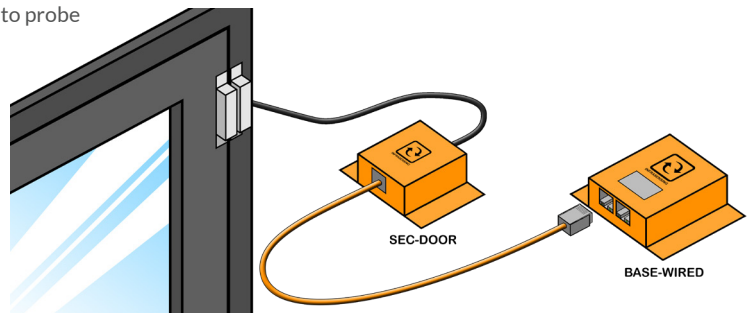0U Rack mountable

Door Contact Sensor

SEC-DOOR 🔗

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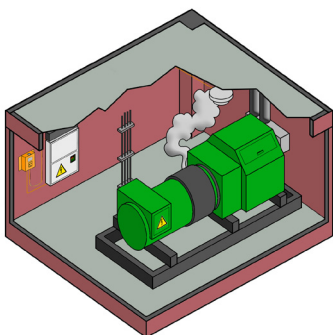0.15" (0.4m) cable from door contact to probe

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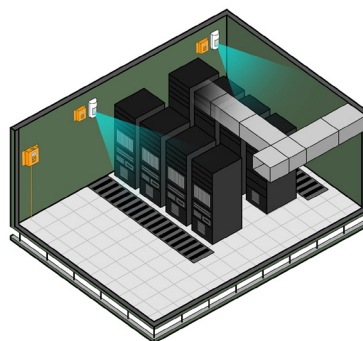
Sound & Noise Level Sensor

SEC-SOUND 🔗

Resolution:	0.01db
Range:	10 to 90db
Accuracy:	1 dB
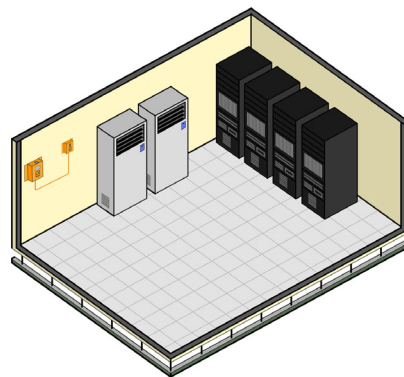
IO - Dry Contact Sensor
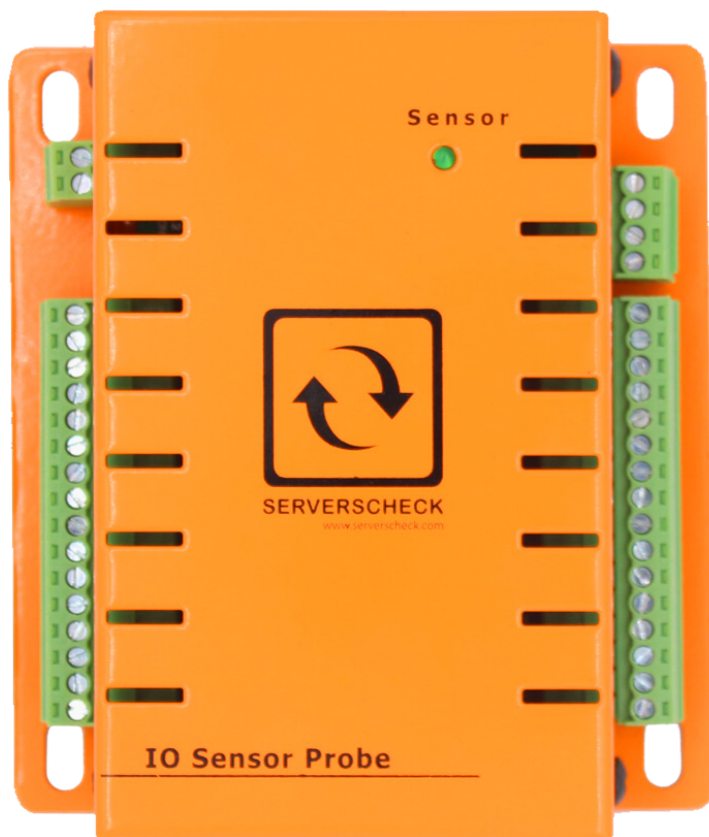
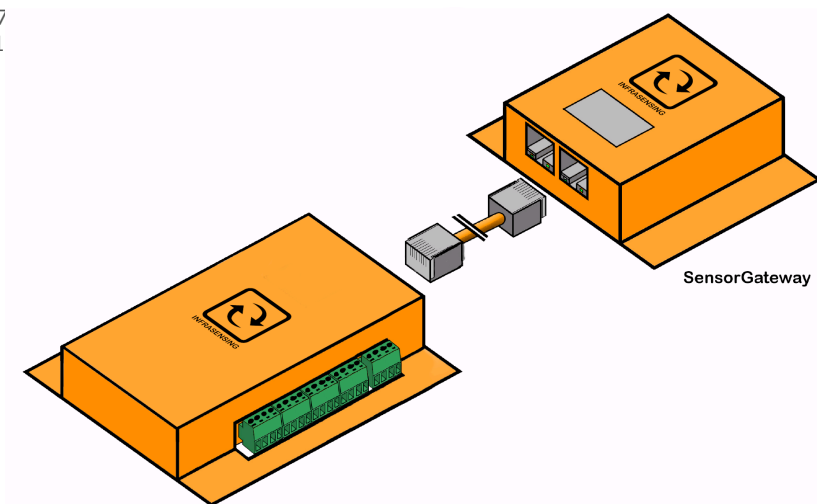**IO Sensor Probe**

IND-IO 🔗

2x 8 dry contact inputs
4 dry contact outputs
12 VDC power out to power attached devices: max 7
Contact polling rate: min 1

SensorGateway

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

On-Premises Touch Appliance

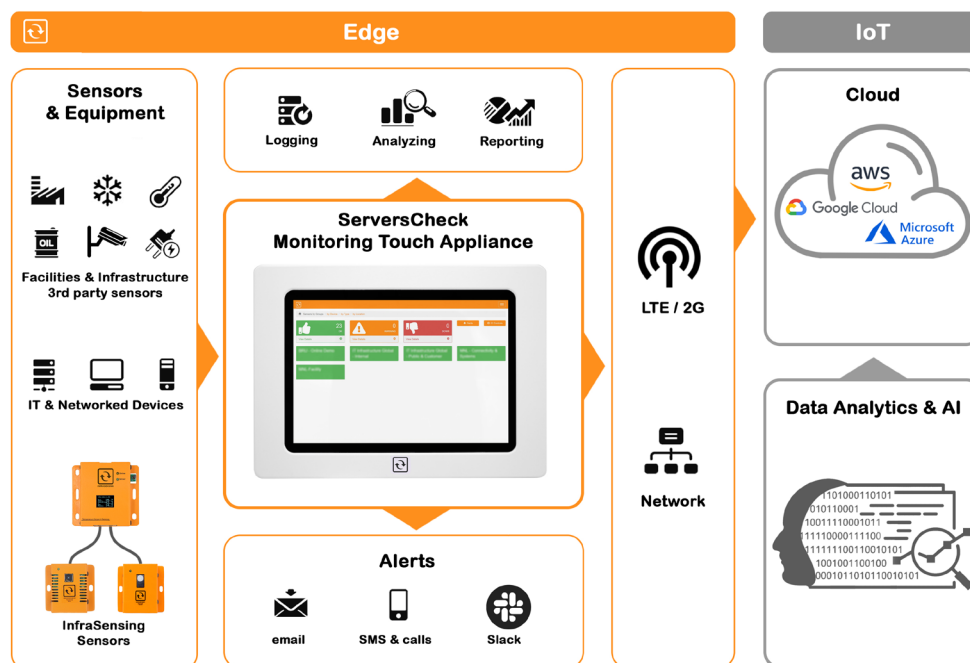|	MON-TOUCH2 🔗	MON-TOUCH2-LTE 🔗
Processor (CPU):	Intel Pentium Gold 4425Y	Intel Core M
Memory (RAM):	4GB	8GB
Default Storage:	64GB	128GB
Optional Additional Storage:		up to 1 TB (via SD card)
Network:	WiFi 2.4 & 5Ghz	WiFi 2.4 & 5Ghz
Cellular Network:		LTE
Screen:	10.5" touch 1920x1280	10.5" touch 1920x1280
Operating System:	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Software:	ServersCheck Monitoring Software	ServersCheck Monitoring Software
Mount:	VESA 100x100	VESA 100x100
AC/DC Power Adapter:	✓	✓
PoE powered:	optional	optional
+24V or -48V input:	optional	optional

Edge

Sensors & Equipment

Logging · Analyzing · Reporting

Facilities & Infrastructure 3rd party sensors

IT & Networked Devices

InfraSensing Sensors

ServersCheck Monitoring Touch Appliance

Alerts

email · SMS & calls · Slack

LTE / 2G

Network

IoT

Cloud

aws · Google Cloud · Microsoft Azure

Data Analytics & AI

On-Premises Appliance

MON-APPLIANCE 🔗

Processor (CPU):	Intel Quad Core Atom Z8350
Memory (RAM):	4GB
Default Storage:	64GB
Optional Additional Storage:	up to 1 TB (via SD card)
Network:	GB Ethernet & WiFi
Screen:	HDMI
Operating System:	Windows 10 IoT Enterprise
Software:	ServersCheck Monitoring Software
Mount:	rack & DIN rail
AC/DC Power Adapter:	✓
PoE powered:	optional
+24V or -48V input:	optional

Edge

Sensors & Equipment

Facilities & Infrastructure
Modbus, Bacnet, RS485 & other protocols

IT & Networked Devices

SensorGateway & Sensors

Logging Analyzing Reporting

ServersCheck Monitoring Appliance

MONITORING APPLIANCE

Alerts

email SMS & calls SNMP Traps

Satellite

LTE / 2G

Network

IoT

Cloud

aws
Google Cloud
Microsoft Azure

Data Analytics & AI