Simply smart monitoring
Anywhere. Everywhere.
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-condensing)

**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 OLED display**

**MQTT**

**Modbus RTU Industrial Control Systems**

**SNMP integration and Modbus for BMS tools**

**DHCP or Static IP**

**PoE or DC Powered**

**Built-in Temperature Sensor**

**Built-in alerts via email, voice call & SMS**
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

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### 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 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 +167°F)
- **Operating humidity range:** < 90% rH (non-condensating)
- **Dimensions:** 94 mm (3.7") x 84 mm (3.3") x 26 mm (1.0")
- **Weight:** 0.24 kgs (0.53lbs.)
Add-Ons

Satellite Add-On

**ADDON-SATELLITE**

- **Frequency:** 1616 to 1626.5 MHz
- **Latency:** <20 secs
- **Position:** GPS, GALILEO, Iridium
- **Satellite Network:** FCC, CE, IC, RED, ANATEL, AUSTRALIA
- **Temperature Operating Range:** -40°C to +85°C (-40ºF to +185ºF)
- **Regulatory Approval:** -40°C to +85°C (-40ºF to +185ºF)
- **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**

- **Connection:** 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
- **Terminal block:** 1 Device IN and 1 Device OUT terminal block.
- **Temperature Operating Range:** -40°C to +85°C (-40ºF to +185ºF)
- **Connection:** Connects to a sensor port of the base unit or expansion hub
- **Power:** Powered by the base unit

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Expansion Hubs

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)
Auxiliary supply: maximum current capacity of 500mA at 9 to 12 VDC
Power consumption: 650 milliWatts
Dimensions: 167 mm (6.57") x 94 mm (3.7") x 24 mm (0.9")

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

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 +185°F)
- Enclosure: Metal steel enclosure

**NODE-LW-1P**

- Continuous power: 12v DC, 24v DC, 5v (USB-C)
- Battery power: 3x AAA batteries - user changeable
- Operational temperature: -40° to +85°C (-40° to +185°F)

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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 & 5m/16 ft sensing cable

### EXP-4HUB

- Expansion ports for external sensor probes: 4 digital and 1 analog sensor
- Dry contact input ports: 8 (digital sink 100mA)
- Dry contact output ports: maximum current capacity of 500mA at 9 to 12 VDC
- Auxillary supply: 650 milliWatts
- Power consumption: 160mm (6.3") x 165mm (6.5") x 60mm (2.4")
- Dimensions: Orange metal casing with one LED status indicators
- Operating temperature range: 0ºC to +75ºC (32ºF to +167ºF) in PoE mode
- Specifications of on board sensors:
  - Temperature Resolution: 0.1°C (0.18)°F precision
  - Temperature Accuracy: ± 0.5ºC (± 0.9 ºF) over 0ºC to +60ºC
  - Relative Humidity Measurement Range: 0 to 100 % RH
  - Relative Humidity Resolution or precision: ± 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
## Temperature Sensors

### Thermal Image Camera Sensor

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

### Temperature & Humidity Sensor

<table>
<thead>
<tr>
<th>Spec</th>
<th>ENV-THUM</th>
<th>ENV-TEMP</th>
<th>THIMG-STD-IRSPOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>0.1°C (0.18)°F precision</td>
<td>0.1°C (0.18)°F precision</td>
<td>0.02°C (32.04)°F</td>
</tr>
<tr>
<td>Range</td>
<td>+/- 0.5°C (-/+ 0.9 °F) from -10°C to +85°C / 14°F to 185°F</td>
<td>+/- 0.5°C (-/+ 0.9 °F) from -10°C to +85°C / 14°F to 185°F</td>
<td>-70°C to 380°C (-94°F to 716°F)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 0.5°C accuracy from 0°C to 50°C (32°F to 122°F)</td>
<td>-55°C to +125°C (-67°F to +257°F)</td>
<td>&lt; 90% RH (non-condensing)</td>
</tr>
<tr>
<td>Humidity Specs</td>
<td>0.1 % RH and 1% RH</td>
<td>0.1 % RH and 1% RH</td>
<td>0.1 % RH and 1% RH</td>
</tr>
<tr>
<td>Range</td>
<td>0% to 100% RH</td>
<td>0% to 100% RH</td>
<td>0% to 100% RH</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 2 % RH between 10 % RH to 90 % RH and +/- 4 % RH below 10 % RH and above 90 % RH</td>
<td>+/- 2 % RH between 10 % RH to 90 % RH and +/- 4 % RH below 10 % RH and above 90 % RH</td>
<td>+/- 2 % RH between 10 % RH to 90 % RH and +/- 4 % RH below 10 % RH and above 90 % RH</td>
</tr>
</tbody>
</table>

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# Temperature Sensors

## Stainless Steel Temperature Sensor

**ENV-TSTAIN**

- **Resolution:** 0.1°C / 0.18°F
- **Range:** -55°C to +125°C / 14°F to 185°F
- **Accuracy:** ± 0.5°C from -10°C to +85°C
  ± 1°F from 14°F to 185°F

## Industrial Surface Temperature Sensor

**ENV-TSURFACE**

- **Resolution:** 0.1°C / 0.18°F
- **Range:** -55°C to +125°C (-67°F to +257°F)
- **Accuracy:** ± 0.5°C (+/- 0.9 ºF) from 0°C to +85°C
  ± 1°C 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°C (0.18)°F
- **Temperature Accuracy:** ±1°C (1.8°F)
- **Temperature Reading:** -196°C to +75°C (-320°F to +167°F)
Daisy Chain Temperature (Humidity) Sensor

- **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:** Readings in Celsius or Fahrenheit
- **Certified SensorGateway:** Operating temperature range: 0°C to +75°C (32°F to +167°F) in PoE mode
  - Operating humidity range: < 90% rH (non-condensating)
  - Dimensions: 68 mm (2.68") x 72 mm (2.83") x 28 mm (1.10")
  - Housing: Orange metal case with status led

Maximum of 1x DAISY-STARTER and 20x DAISY-TEMP (or 20 x DAISY-THUM) per SensorGateway

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Daisy Chain Infrared Spot Temperature Sensor

- **Temperature object measurement range:** -70°C to +380°C (-94°F to +716°F) in PoE mode
- **Temperature Accuracy:** ±0.5°C / ±0.9°F accuracy from 0°C-50°C / 32°F to 122°F
- **Field Of View (FOV):** 90°
- **Distance:** Can detect IR heat from up to approximately 30m/90ft
- **Certified Operating temperature range:** 0°C to +75°C (32°F to +167°F)
  - Operating humidity range: < 90% rH (non-condensating)
  - Dimensions: 71 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")
  - Housing: Orange metal case with status led

Maximum of 1x DAISY-STARTER sensor and 20x DAISY-IRSPOT per SensorGateway
**Daisy CO2-VOC-THUM Sensor**

- **Temperature Resolution:** 0.1°C (0.18°F) precision
- **Temperature Accuracy:** ±0.8 °C (15°C - 35 °C)
- **Temperature Range:** -55°C to +125°C (-67°F to +257°F)
- **Certified SensorGateway Operating Temperature Range:** 0°C to 50°C (32°F to 122°F)
- **Operating Humidity Range:** < 90% rH (non-condensing)
- **Dimensions:** 71.1 mm (2.8") x 67 mm (2.6") x 23 mm (0.9")
- **Housing:** Orange metal case with status LED

0U Rack mountable

Maximum of 1x DAISY-STARTER and 10x DAISY-CO2-VOC-THUM per SensorGateway

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**Daisy Chain Temperature Magnet Sensor**

- **Power Source:** SensorGateway (BASE-WIRED)
- **Temperature Precision:** ±0.1°C (0.18°F)
- **Temperature Accuracy:** <±0.25%
- **Temperature Range:** -50°C to 200°C (-58°F to 392°F)
- **Operation Temperature Range:** 0°C to +75°C (32°F to +167°F)
- **Operating Humidity Range:** < 90% rH (non-condensing)
- **Dimensions:** 71 mm (2.8") x 68 mm (2.7") x 23 mm (0.9")
- **Weight:** 0.16kg (0.35 lbs)

0U Rack mountable or Wall mountable

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

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MAY 2023
Daisy Chain Booster

Certified Operating temperature range: 0°C to +85°C (32°F to +185°F)
Operating humidity range: < 90% RH (non-condensating)
Dimensions: 74 mm (2.9") x 68 mm (2.7") x 23 mm (0.9")
Housing: Orange metal case with status led

0U Rack mountable or Wall mountable
The DAISY-BOOSTER extends the operating length of the daisy chain sensors from 100 meters up to 200 meters.

Daisy Chain Starter

Power Source: SensorGateway (BASE-WIRED)
Operation temperature range: 0°C to +75°C (32°F to +167°F)
Operating humidity range: < 90% RH (non-condensating)
Dimensions: 73 mm (2.9") x 68 mm (2.7") x 23 mm (0.9")
Weight: 0.11 kg (0.25 lbs)
Other Environmental Sensors

Optical Dust Particle Sensor

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

Digital Airflow Sensor

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

Differential Air Pressure Sensor

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

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

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: 0 to 50°C
- Operating humidity range: 5 to 95% rH (non-condensing)
- Sensing range: 450 – 2000 ppm CO2 equivalents
  125 – 600 ppb TVOC equivalents

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

**ENV-NOISE**

- Range: 30 - 120db
- Accuracy: ±0.5 dB

### Particle Sensor

**ENV-PARTICLE**

- Power source: SensorGateway (BASE-WIRED)
- Power usage: 156 mW
- Mass concentration range: 0 – 1000 μg/m³
- Particle detection size range:
  - PM1.0, PM2.5, PM4 and PM10
  - PM0.5, PM1.0, PM2.5, PM4 and PM10
- Mass concentration range: 1 μg/m³
- Number concentration range:
  - PM1 and PM2.5:
  - PM4 and PM10:
- Maximum long-term mass concentration precision limit drift:
- Lower limit detection:
- Lifetime:
- Acoustic emission level:
- Long term acoustic emission level drift:
- Sampling interval:

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### 1234yf Gas Sensor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GAS-1234yf</strong></td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to +70°C (32°F to +158°F)</td>
</tr>
<tr>
<td>Freon level</td>
<td>90% rH (non-condensating)</td>
</tr>
<tr>
<td>Conditioning period</td>
<td>7 Days</td>
</tr>
<tr>
<td>Lifetime</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

### Refrigerant A1 (R-404A, R-22, and R-410A) Gas Sensor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GAS-A1</strong></td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0-10,000 ppm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>R404A ±5% of reading</td>
</tr>
<tr>
<td></td>
<td>R22 ±5% of reading</td>
</tr>
<tr>
<td></td>
<td>R410A ±5% of reading</td>
</tr>
<tr>
<td>Warm up time</td>
<td>24 hours</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to +70°C (32°F to +158°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>&lt; 90% rH (non-condensating)</td>
</tr>
</tbody>
</table>

### VOC Gas Sensor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GAS-VOC</strong></td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>VOC measurement range</td>
<td>0-500 VOC index</td>
</tr>
<tr>
<td>VOC repeatability</td>
<td>≤±5 VOC index points</td>
</tr>
<tr>
<td>Response time (T63):</td>
<td>10s</td>
</tr>
<tr>
<td>Warm up time</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>&lt; 90% rH (non-condensating)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.5 mm (2.8&quot;) x 68 mm (2.7&quot;) x 28.8 mm (1.1&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.13 kg (0.29 lbs)</td>
</tr>
</tbody>
</table>

### VOC and NOx Gas Sensor

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GAS-VOC-NOx</strong></td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>VOC measurement range</td>
<td>0-500 VOC index</td>
</tr>
<tr>
<td>VOC repeatability</td>
<td>≤±5 VOC index points</td>
</tr>
<tr>
<td>NOx measurement output</td>
<td>250 seconds</td>
</tr>
<tr>
<td>NOx repeatability</td>
<td>10s</td>
</tr>
<tr>
<td>Response time (T63):</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Warm up time</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>&lt; 90% rH (non-condensating)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.5 mm (2.8&quot;) x 68 mm (2.7&quot;) x 28.8 mm (1.1&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.13 kg (0.29 lbs)</td>
</tr>
</tbody>
</table>
Gas Sensors

Refrigerant A2L (R-32, -1234yf, R-1234ZE, and R-454B) Gas Sensor

GAS-A2L
Power source: SensorGateway (BASE-WIRED)
Measurement range: 0-10000 ppm
Accuracy:
R-32 ±5% of reading
R-1234yf ±5% of reading
R-1234ZE ±5% of reading
R-454B ±5% of reading
Warm up time: 60s
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensating)

Refrigerant A3 (R-290) Gas Sensor

GAS-A3
Power source: SensorGateway (BASE-WIRED)
Measurement range: 0-10000 ppm
Accuracy:
R-290 ±5% of reading
Response time (T90): 50 seconds
Warm up time: 24 hours
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")

Ethylene (C2H4) Gas Sensor

GAS-C2H4
Power source: SensorGateway (BASE-WIRED)
Measurement range: 0-100 ppm
Max detecting concentration: 200 ppm
Warm up time: 10 minutes
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensating)
Dimension: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Furfural (C5H4O2) Gas Sensor

GAS-C5H4O2
Power source: SensorGateway (BASE-WIRED)
Measurement range: 0-100 ppm
Response time: <60s
Warm up time: 6-48 hours
Operating temperature range: -20°C to +50°C (-4°F to +122°F)
Operating humidity: 15% to 90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

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**Formaldehyde (CH2O) Gas Sensor**

**GAS-CH2O**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-20 ppm
- **Max detecting concentration:** 100 ppm
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15% - 90% rH (non-condensing)
- **Dimension:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.13 kg (0.26 lbs)

**Methyl Mercaptan (CH3SH) Gas Sensor**

**GAS-CH3SH**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-10 ppm
- **Response time (T90):** <35s
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15% - 90% rH (non-condensing)
- **Dimension:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.13 kg (0.26 lbs)

**Methane (CH4) Gas Sensor**

**GAS-CH4**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0 - 100% LEL
- **Maximum detection:** 50,000 CH4 ppm (=100% LEL)
- **Response Time (T90):** 15 seconds
- **Warm up time:** 10 minutes
- **Operating temperature range:** 0°C to +70°C (32°F to +158°F)
- **Operating humidity:** <90% rH (non-condensing)
- **Dimension:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.12kg (0.26 lbs)

**Chlorine (CL2) Gas Sensor**

**GAS-CL2**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0 - 200 ppm
- **Max detecting concentration:** 100 ppm
- **Response Time (T90):** <30 seconds
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15% - 90% rH (non-condensing)
- **Dimension:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.13 kg (0.29 lbs)
## Gas Sensors

### Carbon Monoxide (CO) Gas Sensor

**GAS-CO**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0-2000 ppm</td>
</tr>
<tr>
<td>Max detecting concentration</td>
<td>2000 ppm</td>
</tr>
<tr>
<td>Response time (T90)</td>
<td>&lt;30s</td>
</tr>
<tr>
<td>Warm up time</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>20°C to +50°C (-4°F to +122°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>15 - 90% rH (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.13 kg (0.29 lbs)</td>
</tr>
</tbody>
</table>

### Carbon Dioxide (CO2) Gas Sensor

**GAS-CO2**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0-40000 ppm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>400-5000 ppm (+/- 40 ppm + 5% of reading)</td>
</tr>
<tr>
<td>Response time (T63)</td>
<td>60s</td>
</tr>
<tr>
<td>Warm up time</td>
<td>15 seconds</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0-90% rH (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71 mm (2.8”) x 68.8 mm (2.7”) x 28.8 mm (1.1”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.13 kg (0.29 lbs)</td>
</tr>
</tbody>
</table>

### Carbon Dioxide (CO2-NDIR) Gas Sensor

**GAS-CO2-NDIR**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Measurement range</td>
<td>0-5000 ppm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±3%</td>
</tr>
<tr>
<td>Response time (T90)</td>
<td>180 seconds</td>
</tr>
<tr>
<td>Warm up time</td>
<td>2 minutes</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C to +60°C (32°F to +140°F)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>&lt; 90% rH (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.12 kg (0.26 lbs)</td>
</tr>
</tbody>
</table>

### CO2 and VOC Gas Sensor

**GAS-CO2-VOC**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Measurement range</td>
<td>0-2000 ppm</td>
</tr>
<tr>
<td>Max detecting concentration</td>
<td>2000 ppm</td>
</tr>
<tr>
<td>Response time (T90)</td>
<td>&lt;30s</td>
</tr>
<tr>
<td>Warm up time</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>20°C to +50°C (32°F to +122°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>15 - 90% rH (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.12 kg (0.26 lbs)</td>
</tr>
</tbody>
</table>

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Gas Sensors

Temperature and Humidity with CO2 and VOC Sensor

GAS-CO2-VOC-THUM

Power source: SensorGateway (BASE-WIRED)
CO2 output range: 0-40000 ppm
CO2 accuracy: +/- 40 ppm + 5% of reading
VOC output range: 0-500 ppm
VOC repeatability: +/- 5 ppm
Temperature resolution: ±0.8°C (15°C - 35°C); ±1.5°C (-10°C - 60°C)
Humidity accuracy: +/- 6% rH
Operating temperature range: 0°C to 50°C (32°F to 122°F)
Operating humidity: 0-90% rH (non-condensating)

Ethylene Oxide (ETO) Gas Sensor

GAS-ETO

Power source: SensorGateway (BASE-WIRED)
Measurement range: 0-500 ppm
Maximum detection: 100 ppm
Response time (T90): <120s
Warm up time: 6-48 hours
Operating temperature range: -20°C to +50°C (-4°F to +122°F)
Operating humidity: 15-90% rH (non-condensating)
Dimension: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Hydrogen (H2) Gas Sensor

GAS-H2

Power Source: SensorGateway (BASE-WIRED)
Hydrogen level: 0-100% LEL
Maximum detection: 40,000 ppm (=100% LEL)
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.12 kg (0.26 lbs)

Hydrogen Sulfide (H2S) Gas Sensor

GAS-H2S

Power Source: SensorGateway (BASE-WIRED)
Measurement range: 0 - 100 ppm
Maximum detection: 500 ppm
Response Time (T90): <20 seconds
Warm up time: 10 minutes
Operating temperature range: -20°C to +50°C (-4°F to +122°F)
Operating Humidity: 15-90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)
Gas Sensors

Hydrogen Chloride (HCL) Gas Sensor

GAS-HCL

Power source: SensorGateway (BASE-WIRED)
Measurement Range: 0-50 ppm
Maximum detection: 200 ppm
Response Time (T90): <70s
Warm up time: 6-48 hours
Operating temperature range: -20°C to +50°C (-4°F to +122°F)
Operating humidity: < 90% rH (non-condensing)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Hydrogen Fluoride (HF) Gas Sensor

GAS-HF

Power source: SensorGateway (BASE-WIRED)
Measurement Range: 0-10 ppm
Maximum detection: 100 ppm
Response Time (T90): <90s
Warm up time: 10 minutes
Operating temperature range: -20°C to +40°C (-4°F to +104°F)
Operating humidity: 15-90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Ammonia (NH3) Gas Sensor

GAS-NH3

Power source: SensorGateway (BASE-WIRED)
Measurement Range: 0-100 ppm
Maximum detection: 200 ppm
Response Time (T90): <90s
Warm up time: 10 minutes
Operating temperature range: -20°C to +40°C (-4°F to +104°F)
Operating humidity: 15-90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Nitric Oxide (NO) Gas Sensor

GAS-NO

Power source: SensorGateway (BASE-WIRED)
Measurement Range: 0-250 ppm
Maximum detection: 150 ppm
Response Time (T90): <30s
Warm up time: 6-48 hours
Operating temperature range: -20°C to +50°C (-4°F to +122°F)
Operating humidity: 15-90% rH (non-condensating)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

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**Gas Sensors**

### Nitrogen Dioxide (NO2) Gas Sensor

**GAS-NO2**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-20 ppm
- **Maximum detection:** 150 ppm
- **Response time (T90):** < 30s
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15 - 90% rH (non-condensating)
- **Dimension:** 71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)
- **Weight:** 0.13 kg (0.29 lbs)

### Oxygen (O2) Gas Sensor

**GAS-O2**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-20 ppm
- **Maximum detection:** 150 ppm
- **Response time (T90):** < 30s
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15 - 90% rH (non-condensating)
- **Dimension:** 71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)
- **Weight:** 0.13 kg (0.29 lbs)

### Ozone (O3) Gas Sensor

**GAS-O3**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-30% vol
- **Maximum detection:** 30% vol
- **Response time (T90):** < 30s
- **Warm up time:** 6-48 hours
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15 - 90% rH (non-condensating)
- **Dimension:** 71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)
- **Weight:** 0.13 kg (0.29 lbs)

### Phosphine (PH3) Gas Sensor

**GAS-PH3**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0-2000ppm
- **Maximum detection:** 100 ppm
- **Response time (T90):** < 25s
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +50°C (-4°F to +122°F)
- **Operating humidity:** 15 - 90% rH (non-condensating)
- **Dimension:** 71.5 mm (2.8”) x 68 mm (2.7”) x 31 mm (1.2”)
- **Weight:** 0.13 kg (0.29 lbs)
Gas Sensors

Refrigerants (R-134a) Gas Sensor

GAS-R-134a
Power source: SensorGateway (BASE-WIRED)
Measurement Range: 0-2000 ppm
Accuracy:
±1% for readings below 25% of range
±2% for readings below 50% of range
±5% for readings above 50% of range
Response time (T90): 30s
Warm up time: 5 minutes
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensing)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.13 kg (0.29 lbs)

Refrigerants (R-290) Gas Sensor

GAS-R290
Power source: SensorGateway (BASE-WIRED)
Freon level: 1,000 to 10,000 ppm
Conditioning period: 7 days
Response time (T90): 50s
Warm up time: 24 hours
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensing)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.12 kg (0.26 lbs)

Refrigerants (R-32) Gas Sensor

GAS-R32
Power source: SensorGateway (BASE-WIRED)
Freon level: 1,000 to 10,000 ppm
Conditioning period: 7 days
Response time (T90): 50s
Warm up time: 24 hours
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensing)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.12 kg (0.26 lbs)

Freon (R404a) Gas Sensor

GAS-404a
Power source: SensorGateway (BASE-WIRED)
Freon level: 1,000 to 10,000 ppm
Conditioning period: 7 days
Response time (T90): 60s
Warm up time: 24 hours
Operating temperature range: 0°C to +70°C (32°F to +158°F)
Operating Humidity: < 90% rH (non-condensing)
Dimensions: 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
Weight: 0.12 kg (0.26 lbs)

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**Gas Sensors**

### Refrigerant (R410a) Gas Sensor

**GAS-410a**
- **Power source:** SensorGateway (BASE-WIRED)
- **Freon level:** 1,000 to 10,000 ppm
- **Conditioning period:** 7 days
- **Warm up time:** 24 hours
- **Operating temperature range:** 0°C to +70°C (32°F to +158°F)
- **Operating Humidity:** <90% rH (non-condensating)
- **Dimensions:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.12 kg (0.26 lbs.)

### Radon (Rn) Gas Sensor

**GAS-RADON**
- **Power source:** SensorGateway (BASE-WIRED)
- **Sensitivity:** 17 cph @ 100 Bq/m³
- **Range:** 0 - 1,000,000 Bq/m³
- **Accuracy:** ±10% at 370 Bq/m³
- **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 31 mm (1.2")
- **Weight:** 0.13 kg (0.29 lbs.)

### Sulfur Hexafluoride (SF6) Gas Sensor

**GAS-SF6**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0 - 1,000 ppm
- **Accuracy:** ±1% of FS range for readings below 25% of range
- **Response Time(T90):** 50s
- **Warm up time:** 7 minutes
- **Operating temperature range:** 0°C to +70°C (32°F to 122°F)
- **Operating Humidity:** <90% rH (non-condensating)
- **Dimensions:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.13 kg (0.29 lbs.)

### Sulfur Dioxide (SO2) Gas Sensor

**GAS-SO2**
- **Power source:** SensorGateway (BASE-WIRED)
- **Measurement range:** 0 - 20 ppm
- **Maximum detection:** 150 ppm
- **Response Time(T90):** <45 seconds
- **Warm up time:** 10 minutes
- **Operating temperature range:** -20°C to +40°C (-4°F to +104°F)
- **Operating Humidity:** 15 - 90% rH (non-condensating)
- **Dimensions:** 71.5 mm (2.8") x 68 mm (2.7") x 31 mm (1.2")
- **Weight:** 0.13 kg (0.29 lbs.)
### 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.
**Liquid Leak Sensors**

### 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.

### 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 replaced. Provides a WET/DRY indication in SensorGateway.

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Typical response time at 20°C (68°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 diesel fuel</td>
<td>60 minutes</td>
</tr>
<tr>
<td>#2 diesel fuel</td>
<td>120 minutes</td>
</tr>
<tr>
<td>Gasoline</td>
<td>12 minutes</td>
</tr>
<tr>
<td>JP5 jet fuel</td>
<td>70 minutes</td>
</tr>
<tr>
<td>JP8 jet fuel</td>
<td>50 minutes</td>
</tr>
<tr>
<td>Jet-A jet fuel</td>
<td>50 minutes</td>
</tr>
</tbody>
</table>

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Optical Oil & Hydrocarbon Leak Sensor

ENV-LEAK-OPTICAL

Operating temperature range: 0°C to +75°C (32°F to +167°F)
Operating humidity range: <90% rH (non-condensating)
Sensor Housing Dimensions: 146 mm (5.7") x 63 mm (2.5") x 60.89 mm (2.4")
Sensor Housing Material: IP 65 plastic housing
Power source: SensorGateway (BASE-WIRED)
Power usage: 2.1W
Data output: Provides a WET/DRY indication in SensorGateway
Maximum height from surface: 10 cm
Detection time: 3 seconds
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DC Power Sensors

DC Power Failure Sensor

PWR-DC-FAIL

Provides a ON/OFF indication in SensorGateway

DC Power Voltage Sensor

PWR-DC-VOLT

- Input Current: 0-300A DC
- Non-linearity: +/- 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
Low Voltage DC Power Monitor

**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.)

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Battery Monitoring System (BMS)

- 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.
Power Monitoring Sensors

Ultrasonic Fuel Level Sensor

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

Ground Monitoring

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR-GROUND</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range:</td>
<td>0°C to +75°C (32°F to +167°F) in PoE mode</td>
</tr>
<tr>
<td>Operating humidity range:</td>
<td>&lt; 90% rH (non-condensating)</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>70mm (2.7&quot;) x 88mm (3.4&quot;) x 22mm (0.8&quot;)</td>
</tr>
<tr>
<td>Housing:</td>
<td>Orange metal casing with LED status indicators</td>
</tr>
<tr>
<td>Monitors up to 3 different ground systems</td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>0.02 Ohm</td>
</tr>
<tr>
<td>Range:</td>
<td>0-1000 Ohm</td>
</tr>
<tr>
<td>Accuracy:</td>
<td>± 5%</td>
</tr>
<tr>
<td>Units:</td>
<td>Ohm</td>
</tr>
<tr>
<td>Contact polling rate:</td>
<td>min 1 second</td>
</tr>
<tr>
<td>Requires use of fuse cables</td>
<td></td>
</tr>
</tbody>
</table>

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**Light Sensor**

<table>
<thead>
<tr>
<th>SEC-LUX</th>
<th>![Image of SEC-LUX]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution:</td>
<td>1 Lux</td>
</tr>
<tr>
<td>Range:</td>
<td>0 to 65000 Lux</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>0°C to +75°C (32°F to +167°F)</td>
</tr>
</tbody>
</table>

**Digital Shock / Vibration Sensor**

<table>
<thead>
<tr>
<th>SEC-SHOCK</th>
<th>![Image of SEC-SHOCK]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration unit:</td>
<td>G force ±2G</td>
</tr>
<tr>
<td>Nominal value:</td>
<td>1G</td>
</tr>
<tr>
<td>Sensor sensitivity:</td>
<td>0.18G</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>74mm (2.9&quot;) x 66mm (2.59&quot;) x 22mm (0.8&quot;)</td>
</tr>
<tr>
<td>Housing:</td>
<td>Orange metal case with status led</td>
</tr>
<tr>
<td>0U Rack mountable</td>
<td></td>
</tr>
</tbody>
</table>

**Door Contact Sensor**

<table>
<thead>
<tr>
<th>SEC-DOOR</th>
<th>![Image of SEC-DOOR]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic door contact sensor with self-adhesive or screw mount</td>
<td></td>
</tr>
<tr>
<td>Returns OPEN or CLOSE state</td>
<td></td>
</tr>
<tr>
<td>0.15” (0.4m) cable from door contact to probe</td>
<td></td>
</tr>
</tbody>
</table>

**Tilt Sensor**

<table>
<thead>
<tr>
<th>SEC-TILT</th>
<th>![Image of SEC-TILT]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source:</td>
<td>SensorGateway (BASE-WIRED)</td>
</tr>
<tr>
<td>Power usage:</td>
<td>204mW</td>
</tr>
<tr>
<td>Axes displayed by sensor:</td>
<td>X, Y, and Z</td>
</tr>
<tr>
<td>Maximum measurement of tilt:</td>
<td>±180 degrees</td>
</tr>
</tbody>
</table>
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

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IO - Dry Contact Sensor

IND-IO

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

Contact polling rate:

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

### Industrial 0-10V

**SensorGateway (BASE-WIRED)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12VDC 50mA max</td>
</tr>
<tr>
<td>Sensor accuracy</td>
<td>±1%</td>
</tr>
<tr>
<td>Auxillary Power Supply</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature range</td>
<td>0°C to +75°C (32°F to +167°F)</td>
</tr>
<tr>
<td>Humidity operating and storage</td>
<td>&lt; 90% rH (non-condensating).</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.9mm (2.9”) x 68.9mm (2.7”) x 33.2mm (1.3”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.14kg (0.31 lbs.)</td>
</tr>
</tbody>
</table>

### Industrial 4-20mA

**SensorGateway (BASE-WIRED)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12VDC 50mA max</td>
</tr>
<tr>
<td>Sensor accuracy</td>
<td>±1%</td>
</tr>
<tr>
<td>Auxillary Power Supply</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature range</td>
<td>0°C to +75°C (32°F to +167°F)</td>
</tr>
<tr>
<td>Humidity operating and storage</td>
<td>&lt; 90% rH (non-condensating).</td>
</tr>
<tr>
<td>Dimensions</td>
<td>71.9mm (2.9”) x 68.9mm (2.7”) x 33.2mm (1.3”)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.14kg (0.31 lbs.)</td>
</tr>
</tbody>
</table>
On-Premises Touch Appliance

MON-TOUCH2
- Processor (CPU): Intel Pentium Gold 4425Y
- Memory (RAM): 4GB
- Network: WiFi 2.4 & 5Ghz
- Screen: 10.5" touch 1920x1280
- Operating System: Windows 10 IoT Enterprise
- Mount: VESA 100x100
- AC/DC Power Adapter: optional
- PoE powered: optional
- +24V or -48V input: optional

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

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<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Unit</td>
<td></td>
</tr>
<tr>
<td>BASE-WIRED SensorGateway</td>
<td></td>
</tr>
<tr>
<td>BASE-PWR Power Adapter for SensorGateway</td>
<td></td>
</tr>
<tr>
<td>BASE-PWR-USB USB Power Cable for SensorGateway</td>
<td></td>
</tr>
<tr>
<td>Add-Ons</td>
<td></td>
</tr>
<tr>
<td>ADDON-LTE LTE/3G/2G Cellular Add-On</td>
<td></td>
</tr>
<tr>
<td>ADDON-SATELLITE Satellite Add-On</td>
<td></td>
</tr>
<tr>
<td>ADDON-WIFI Wifi Add-On</td>
<td></td>
</tr>
<tr>
<td>ADDON-POE 24V/-48V DC Power Add-On (PoE injector)</td>
<td></td>
</tr>
<tr>
<td>ADDON-RTU Modbus RTU (Slave) Add-On</td>
<td></td>
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<tr>
<td>Expansion Hubs</td>
<td></td>
</tr>
<tr>
<td>EXP-8HUB SensorHub for SensorGateway</td>
<td></td>
</tr>
<tr>
<td>EXP-4HUB Multi-Sensor &amp; Hub</td>
<td></td>
</tr>
<tr>
<td>EXP-LWHUB Wireless Hub</td>
<td></td>
</tr>
<tr>
<td>NODE-LW-1P Wireless Node</td>
<td></td>
</tr>
<tr>
<td>Monitoring Platform</td>
<td></td>
</tr>
<tr>
<td>MON-TOUCH2-LTE Monitoring Touch Appliance with LTE</td>
<td></td>
</tr>
<tr>
<td>MON-TOUCH2 Monitoring Touch Appliance</td>
<td></td>
</tr>
<tr>
<td>AC Power Sensors</td>
<td></td>
</tr>
<tr>
<td>PWR-AC-CUR AC Current (Power Usage) Sensor</td>
<td></td>
</tr>
<tr>
<td>PWR-AC-FAIL AC Power Failure Sensor</td>
<td></td>
</tr>
<tr>
<td>PWR-AC-QUAL AC Power Quality Sensor</td>
<td></td>
</tr>
<tr>
<td>PWR-AC-VOLT AC Power Voltage Sensor</td>
<td></td>
</tr>
<tr>
<td>DC Power Sensors</td>
<td></td>
</tr>
<tr>
<td>PWR-DC-FAIL DC Power Failure Sensor</td>
<td></td>
</tr>
<tr>
<td>PWR-DC-METER Low Voltage DC Power Meter</td>
<td></td>
</tr>
<tr>
<td>PWR-DC-VOLT DC Power Voltage</td>
<td></td>
</tr>
<tr>
<td>PWR-BAT-STRING Battery Monitoring - Control Module</td>
<td></td>
</tr>
<tr>
<td>PWR-BAT-CELL Battery Monitoring - Battery Module</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Imaging Sensor</td>
<td></td>
</tr>
<tr>
<td>THIMG-STD-XS Thermal Imaging Sensor (extra small)</td>
<td></td>
</tr>
<tr>
<td>THIMG-STD-S Thermal Imaging Sensor (small)</td>
<td></td>
</tr>
<tr>
<td>THIMG-STD-M Thermal Imaging Sensor (medium)</td>
<td></td>
</tr>
<tr>
<td>THIMG-STD-L Thermal Imaging Sensor (Large)</td>
<td></td>
</tr>
<tr>
<td>THIMG-STD-IRSPOT Infrared Spot Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>Environmental Sensors</td>
<td></td>
</tr>
<tr>
<td>ENV-TEMP Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-THUM Temperature and Humidity Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-TSTAIN Stainless Steel Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-TSURFACE Industrial Surface Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-TULTRA Ultra Low Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-AIRFLW Digital Airflow Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV DUST Optical Dust Particle Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-WLEAK-COMBO Water Detection &amp; Flooding Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-WLEAK-5M Water Detection &amp; Flooding Cable</td>
<td></td>
</tr>
<tr>
<td>ENV-WLEAK-LOC-COMBO5 Water Leak Location Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-FLEAK-COMBO Fuel Leak Detection Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-FLEAK-5M Fuel Leak Detection Cable</td>
<td></td>
</tr>
<tr>
<td>ENV-WSPOT Water Spot Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-W-TEMP Wireless Temperature Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-NOISE Digital sound &amp; noise level (dbA) sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-TVOC Indoor Air Quality Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-BLEAK-COMBO Battery Leak Sensor Probe</td>
<td></td>
</tr>
<tr>
<td>ENV-BLEAK-5M Battery Leak Detection Cable</td>
<td></td>
</tr>
<tr>
<td>ENV-LEAK-OPTICAL Optical Oil &amp; Hydrocarbon Leak Sensor</td>
<td></td>
</tr>
<tr>
<td>ENV-PARTICLE Particle Sensor</td>
<td></td>
</tr>
</tbody>
</table>

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### Gas Sensors

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAS-1234yf</td>
<td>1234yf Gas Sensor</td>
</tr>
<tr>
<td>GAS-A1</td>
<td>Refrigerant A1 Gas Sensor</td>
</tr>
<tr>
<td>GAS-A2L</td>
<td>Refrigerant A2L Gas Sensor</td>
</tr>
<tr>
<td>GAS-A3</td>
<td>Refrigerant A3 Gas Sensor</td>
</tr>
<tr>
<td>GAS-C2H4</td>
<td>Ethylene Gas Sensor</td>
</tr>
<tr>
<td>GAS-C5H4O2</td>
<td>Furfural Gas Sensor</td>
</tr>
<tr>
<td>GAS-CH2O</td>
<td>Formaldehyde Gas Sensor</td>
</tr>
<tr>
<td>GAS-CH3SH</td>
<td>Methyl Mercaptan Gas Sensor</td>
</tr>
<tr>
<td>GAS-CH4</td>
<td>Methane Gas Sensor</td>
</tr>
<tr>
<td>GAS-CL2</td>
<td>Chlorine Gas Sensor</td>
</tr>
<tr>
<td>GAS-CO</td>
<td>Carbon Monoxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-CO2</td>
<td>Carbon Dioxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-CO2-NDIR</td>
<td>Carbon Dioxide NDIR Gas Sensor</td>
</tr>
<tr>
<td>GAS-CO2-VOCCO2</td>
<td>CO2 and VOC Gas Sensor</td>
</tr>
<tr>
<td>GAS-ETO</td>
<td>Ethylene Oxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-H2</td>
<td>Hydrogen Gas Sensor</td>
</tr>
<tr>
<td>GAS-H2S</td>
<td>Hydrogen Sulfide Gas Sensor</td>
</tr>
<tr>
<td>GAS-HCL</td>
<td>Hydrogen Chloride Gas Sensor</td>
</tr>
<tr>
<td>GAS-HF</td>
<td>Hydrogen Fluoride Gas Sensor</td>
</tr>
<tr>
<td>GAS-NH3</td>
<td>Ammonia Gas Sensor</td>
</tr>
<tr>
<td>GAS-NO</td>
<td>Nitric Oxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-NO2</td>
<td>Nitrogen Dioxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-O2</td>
<td>Oxygen Gas Sensor</td>
</tr>
<tr>
<td>GAS-O3</td>
<td>Ozone Gas Sensor</td>
</tr>
<tr>
<td>GAS-PH3</td>
<td>Phospine Gas Sensor</td>
</tr>
<tr>
<td>GAS-R-134A</td>
<td>Refrigerants R-134a Gas Sensor</td>
</tr>
<tr>
<td>GAS-R-290</td>
<td>Refrigerants R-290 Gas Sensor</td>
</tr>
<tr>
<td>GAS-R32</td>
<td>R-32 Gas Sensor</td>
</tr>
<tr>
<td>GAS-R404A</td>
<td>Freon Gas Sensor</td>
</tr>
<tr>
<td>GAS-410A</td>
<td>R410a Gas Sensor</td>
</tr>
<tr>
<td>GAS-RADON</td>
<td>Radon Gas Sensor</td>
</tr>
<tr>
<td>GAS-SF6</td>
<td>Sulfur Hexafluoride Gas Sensor</td>
</tr>
<tr>
<td>GAS-SO2</td>
<td>Sulfure Dioxide Gas Sensor</td>
</tr>
<tr>
<td>GAS-VOC</td>
<td>VOC Sensor</td>
</tr>
<tr>
<td>GAS-CO2-VOCTHUM</td>
<td>Temperature and Humidity w/ CO2 and VOC Sensor</td>
</tr>
<tr>
<td>GAS-VOC-NOx</td>
<td>VOC and NOx Sensor</td>
</tr>
</tbody>
</table>

### Other Power Sensors

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR-FUEL</td>
<td>Ultrasonic Fuel Level Sensor</td>
</tr>
<tr>
<td>PWR-GROUND</td>
<td>Grounding Sensor</td>
</tr>
</tbody>
</table>

### Security Sensors

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC-DOOR</td>
<td>Door Contact Sensor</td>
</tr>
<tr>
<td>SEC-SHOCK</td>
<td>Digital Shock / Vibration Sensor</td>
</tr>
<tr>
<td>SEC-LUX</td>
<td>Light Sensor</td>
</tr>
<tr>
<td>SEC-SMOKE</td>
<td>Smoke Sensor</td>
</tr>
<tr>
<td>SEC-TILT</td>
<td>Tilt Sensor</td>
</tr>
<tr>
<td>SEC-MOTION</td>
<td>Motion Sensor</td>
</tr>
<tr>
<td>SEC-SOUND</td>
<td>Noise triggered security sensor</td>
</tr>
</tbody>
</table>

### Industrial Legacy

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND-IO</td>
<td>IO-Dry Contact Sensor</td>
</tr>
<tr>
<td>IND-0-10V</td>
<td>Industrial 0-10V</td>
</tr>
<tr>
<td>IND-4-10mA</td>
<td>Industrial 4-10mA</td>
</tr>
</tbody>
</table>

### Daisy Chain Sensors

<table>
<thead>
<tr>
<th>SKU</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAISY-STARTER</td>
<td>Daisy Chain Sensor Start Unit</td>
</tr>
<tr>
<td>DAISY-BOOSTER</td>
<td>Daisy Chain Booster</td>
</tr>
<tr>
<td>DAISY-CO2-VOCTEMP</td>
<td>Daisy Chain CO2 VOC and Temp Sensor</td>
</tr>
<tr>
<td>DAISY-TEMP</td>
<td>Daisy Chained Temperature Sensor Unit</td>
</tr>
<tr>
<td>DAISY-THUM</td>
<td>Daisy Chained Temp &amp; Humidity Unit</td>
</tr>
<tr>
<td>DAISY-IRSPOT</td>
<td>Daisy Chained IR Spot Temperature Sensor</td>
</tr>
<tr>
<td>DAISY-TEMP-MAGNET</td>
<td>Daisy Chained Temperature Magnet Sensor</td>
</tr>
</tbody>
</table>

### Price Quote & Order Form
1 - FILL IN THE QUANTITIES NEEDED PER SKU ON THE PREVIOUS PAGE

2 - BILLING ADDRESS

<table>
<thead>
<tr>
<th>Billing information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name :</td>
</tr>
<tr>
<td>First &amp; Last Name :</td>
</tr>
<tr>
<td>Street address :</td>
</tr>
<tr>
<td>City :</td>
</tr>
<tr>
<td>Postal (Zip) Code :</td>
</tr>
<tr>
<td>Country :</td>
</tr>
<tr>
<td>Phone :</td>
</tr>
<tr>
<td>Email :</td>
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</tbody>
</table>

3 - SHIPPING ADDRESS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Company Name :</td>
</tr>
<tr>
<td>First &amp; Last Name :</td>
</tr>
<tr>
<td>Street address :</td>
</tr>
<tr>
<td>City :</td>
</tr>
<tr>
<td>Postal (Zip) Code :</td>
</tr>
<tr>
<td>Country :</td>
</tr>
<tr>
<td>Phone :</td>
</tr>
<tr>
<td>Email :</td>
</tr>
</tbody>
</table>

4 - PRICE QUOTE OR ORDER

SEND ME A PRICE QUOTE  ORDER

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

<table>
<thead>
<tr>
<th>Authorize your order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature :</td>
</tr>
<tr>
<td>First name &amp; last name :</td>
</tr>
<tr>
<td>Job title:</td>
</tr>
</tbody>
</table>

6 - SEND THIS FORM

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