

Air Quality Monitoring for Every Environment



Overview

Verkada Air Quality Sensors allow organizations to understand and manage indoor environmental conditions at scale. Organizations use Verkada sensors to monitor indoor environments for harmful pollutants, detect unwanted behaviors and maintain optimal conditions across different spaces. Verkada sensors integrate natively with Verkada cameras to display relevant visual context like automatically synchronized camera footage and People Analytics thumbnails that automatically identify key information about the event.

Verkada sensors can also monitor sensitive environments like bathrooms and locker rooms. When paired with Verkada cameras, Verkada sensors allow organizations to detect unwanted behavior like vaping or bullying in a privacy-sensitive way. All sensors come with a 10-year warranty.

Verkada offers the SV21, SV23 and SV25 sensors. All sensors come with a 10-year warranty.

Key features

Comprehensive coverage

- Sensors capture real-time information to protect against unwanted environmental conditions
- Simplified, single device system provides a unified way to monitor indoor environments
- Powerful sensors measure environmental conditions with high accuracy

Edge computing for speed and security

- Edge-based, proprietary algorithms provide unprecedented insight on your environmental conditions
- Environmental alerts and conditions are captured in less than one second
- Sensors store up to 365 days of environmental information on device

Scalable form factor

- Durable, vandal-resistant design that mounts on walls or ceilings
- PoE-powered device is simple-to-install and can be online in minutes
- Unified device with air quality, audio and environmental sensors



Sensor model comparison

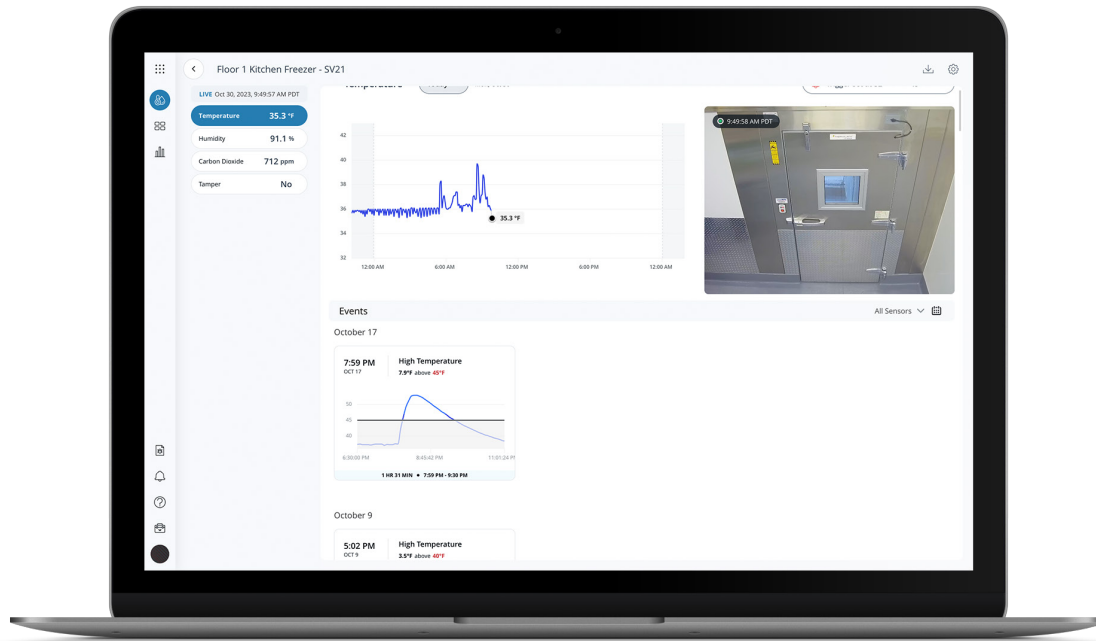


	SV21	SV23	SV25
10 Year Warranty	✓	✓	✓
Sensors	4	10	15
Vape Index	-	✓	✓
Temperature	✓	✓	✓
Relative Humidity	✓	✓	✓
Ambient Light	-	-	✓
Air Quality Index	-	✓	✓
Carbon Dioxide	✓	✓	✓
Carbon Monoxide	-	-	✓
PM 2.5, PM 4.0, PM 10.0	-	✓	✓
TVOC	-	✓	✓
Formaldehyde	-	-	✓
Barometric Pressure	-	-	✓
Tamper detection	✓	✓	✓
Noise level	-	✓	✓
Motion	-	✓	✓
Audio Recording	-	-	✓
Heat Index	✓	✓	✓
Humidex	✓	✓	✓
Dew Point Index	✓	✓	✓
Mold Risk Index	✓	✓	✓
RESET® Viral Index		✓	✓



Verkada SV21 sensor overview

Cloud-Managed Air Quality Monitoring



Our SV21 environmental sensor monitors CO₂, temperature and humidity, bringing the scale and simplicity of cloud-managed monitoring to applications that were previously using legacy thermostats or analog sensors.

The sensor adds additional context to Verkada Camera deployments for applications such as protecting food inventory in refrigerated environments, safeguarding networking infrastructure from dangerous thermal conditions, or maintaining optimal air quality in indoor work spaces like offices and classrooms.

The SV21 comes with unlimited cloud data storage and a 10-year warranty.

Key features

All-in-one design

Sensors are secure end-to-end and capture multiple environmental conditions on a single device.

Cloud-managed

Verkada Command allows customers to view live and historical environmental conditions on any device from nearly anywhere.

Sensor dashboards

Simple-to-configure dashboards display live sensor data on any device to showcase environmental conditions.

Automatic firmware updates

Sensors configure instantly and update automatically.

BACnet integration

Verkada Command empowers admins to manage their access control system from any device in nearly any location.

10 year warranty

Environmental sensors are guaranteed to maintain peak operations throughout their lifetime.



SV21 Tech Specs

**SV21**

Power and network

Power Consumption	4W	Connectivity	RJ-45 cable connector for Network/PoE connection
Power Input	IEEE 802.3af PoE	LED Indicator	System power and status indicator

General

Operating Temperature	-5.0°C to +45.0°C (23.0°F to 113.0°F) Indoors	Offline Mode	Continues sampling and storing data on device
Operating Humidity	0 to 95.0%	Sampling Frequency	5 seconds
Storage	Device: up to 365 Days Cloud: up to 365 Days	Warranty	10 years

Compliance and availability

Availability	USA, CA, IN, UK, UK, EU, AUS, NZ, MX	Compliance & Safety	FCC Part 15B Class B, ICES-003 Class B, NDAA, UKCA, CE, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1
---------------------	---	--------------------------------	--

Software capabilities

Alerts	Device status, specific alerts for each sensor reading based on duration and reading level	Sensor Events	Configurable events for every on-device sensor reading
Alert Notifications	Configurable SMS and email notifications	Sensor Zones	Configurable alerts based on a group of sensors



SV21 Tech Specs

**SV21**

Mechanical

Dimensions	Length: 170.0mm / 6.96in Width: 169.5mm / 6.67in Height: 48.0mm / 1.8in	Weight	500.0g / 17.64oz
-------------------	---	---------------	------------------

Dimensions

170.0mm / 6.67in



48.0mm / 1.9in

Onboard sensors

Temperature	Sensor: CMOS Operating Range: -5.0 to 45.0°C (23.0 to 113.0°F) Typical Accuracy: $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$), Max $\pm 1.0^{\circ}\text{C}$ / ($\pm 1.8^{\circ}\text{F}$)	CO₂	Sensor: Photoacoustic, Range: 0 - 40,000 ppm Typical Accuracy: 400 ppm - 1000 ppm ± 75 ppm 1001 ppm - 2000 ppm $\pm (40 \text{ ppm} + 5\% \text{ of reading})$
Humidity	Sensor: CMOS Operating Range: 0.0 - 95.0% non-condensing Typical Accuracy: $\pm 3.0\%$ @ 25.0°C	Heat Index	Sensor: Formula derived from other sensors Range: 23 °F to 160 °F
Humidex	Sensor: Formula derived from other sensors Range: 0-50	Dew Point Index	Sensor: Formula derived from other sensors Range: 23 °F to 122 °F
Mold Risk Index	Sensor: Formula derived from other sensors Range: 0-3 Index		

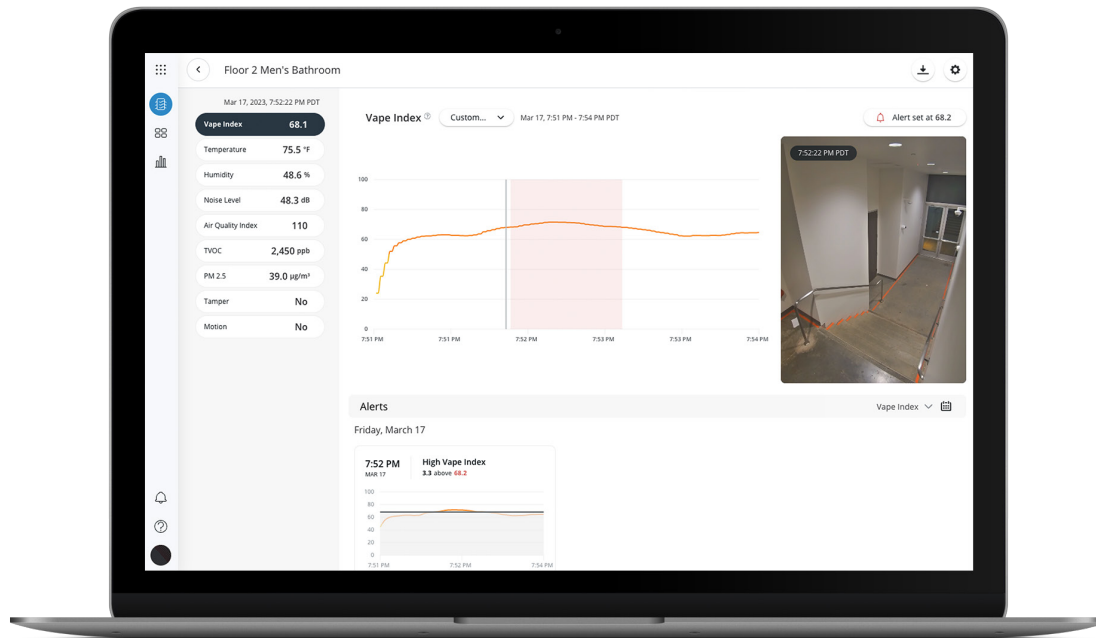
Installation

Included Accessories	1x mounting plate, 1x installation kit, 1x T10 security torx screwdriver, 3x 7x mounting screws, 3x washers, 4x drywall anchors & 3x wing nut	Mounting Options	Horizontal & vertical for wall and ceiling mounts
Popular Install Locations	Server room closet (on ceiling or rack) Open office area (on ceiling) Closed rooms (on ceiling or on wall)		



Verkada SV23 sensor overview

Air Quality and Safety Monitoring



The SV23 sensor monitors for common indoor environmental pollutants like volatile organic compounds from cleaning products, microscopic airborne pollutants from vehicle exhaust and pollen, and even smoking or vaping. The SV23 also collects accurate, transparent data that can be used to meet requirements for green building certifications like RESET, LEED or WELL.

When paired with a Verkada Camera, all Command-based sensor events also display relevant visual context for faster investigations into environmental conditions. Context includes automatically synchronized camera footage and People Analytics thumbnails that automatically identify key information about the event.

The SV23 comes with unlimited cloud data storage and a 10-year warranty.

Key features

All-in-one design

Sensors are secure end-to-end and capture multiple environmental conditions from a single device.

Cloud-managed

Verkada Command allows customers to view live and historical environmental conditions on any device from nearly anywhere.

Sensor dashboards

Simple-to-configure devices display live sensor data on any device to showcase environmental conditions.

Automatic firmware updates

Sensors configure instantly and update automatically.

BACnet integration

Verkada sensors integrate with building HVAC systems that use the BACnet protocol.

10 year warranty

Environmental sensors are guaranteed to maintain peak operations throughout their lifetime.



SV23 Tech Specs

**SV23**

Power and network

Power Consumption	4W	Connectivity	RJ-45 cable connector for Network/PoE connection
Power Input	IEEE 802.3af PoE	LED Indicator	System power and status indicator

General

Operating Temperature	-5.0°C to +45.0°C (23.0°F to 113.0°F) Indoors	Offline Mode	Continues sampling and storing data on device
Operating Humidity	0.0 to 95.0%	Sampling Frequency	5 seconds
Storage	Device: up to 365 Days Cloud: up to 365 Days	Warranty	10 years

Compliance and availability

Availability	USA, CA, IN, UK, UK, EU, AUS, NZ, MX	Compliance & Safety	FCC Part 15B Class B, ICES-003 Class B, NDAA, UKCA, CE, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, ECA, CAK, NCC, RURA, UCC
---------------------	---	--------------------------------	---

Software capabilities

Alerts	Device status, specific alerts for each sensor reading based on duration and reading level	Sensor Events	Configurable events for every on-device sensor reading
Alert Notifications	Configurable SMS and email notifications	Sensor Zones	Configurable alerts based on a group of sensors



SV23 Tech Specs



SV23

Mechanical

Dimensions	Length: 170mm / 6.96in Width: 169.5mm / 6.67in Height: 48.0mm / 1.8in	Weight	554.0g / 19.54oz
-------------------	---	---------------	------------------

Dimensions



Onboard sensors

Temperature	Sensor: CMOS Operating Range: -5.0 to 45.0°C (23.0 to 113.0°F) Typical Accuracy: $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$), Max $\pm 1.0^{\circ}\text{C}$ / ($\pm 1.8^{\circ}\text{F}$)	CO₂	Sensor: Photoacoustic Range: 0.0 - 40,000.0 ppm Typical Accuracy: 400.0 ppm - 1000.0 ppm $\pm 75.0\text{ppm}$ 1001.0 ppm - 2000.0 ppm $\pm (40.0\text{ ppm} + 5.0\% \text{ of reading})$
Humidity	Sensor: CMOS Operating Range: 0.0 - 95.0% non-condensing Typical Accuracy: $\pm 3.0\%$ @ 25.0°C	Noise	Sensor: MEMS microphone Range: 20 - 120 dB SPL (A-Weighted) Typical Accuracy: $\pm 5\text{ dB}$
PM2.5	Sensor: Laser scattering optical Sensor Range: 0.0 - 10000.0 $\mu\text{g}/\text{m}^3$ Typical Accuracy: 0.0 - 100.0 $\mu\text{g}/\text{m}^3$: $\pm 10.0\text{ }\mu\text{g}/\text{m}^3$ 100.0 - 1000.0 $\mu\text{g}/\text{m}^3$: $\pm 10.0\%$	Air Quality Index	Sensor: U.S. Air Quality Index derived from multiple sensors, Range: 0 - 500.0
TVOC Index	Sensor: MOX Range: 0.0 - 500.0	Vape Index	Sensor: Proprietary formula derived from multiple sensors Range: 0 - 100.0
Motion	Sensor: Passive infrared sensor, FoV: 120.0°	Heat Index	Sensor: Formula derived from other sensors Range: 23 °F to 160 °F
Humidex	Sensor: Formula derived from other sensors Range: 0-50	Dew Point Index	Sensor: Formula derived from other sensors Range: 23 °F to 122 °F
Mold Risk Index	Sensor: Formula derived from other sensors Range: 0-3 Index	RESET® Viral Index	Sensor: Formula derived from other sensors Range: 0% - 100%

Installation

Included Accessories	Mounting plate, installation kit, T10 security torx screwdriver, mounting screws, washers, drywall anchors & wing nut	Mounting Options	Horizontal & vertical for wall and ceiling mounts
Popular Install Locations	Open office area (on ceiling) bathroom/locker room (on ceiling)		



Verkada sensor license overview

Regular and Basic Options

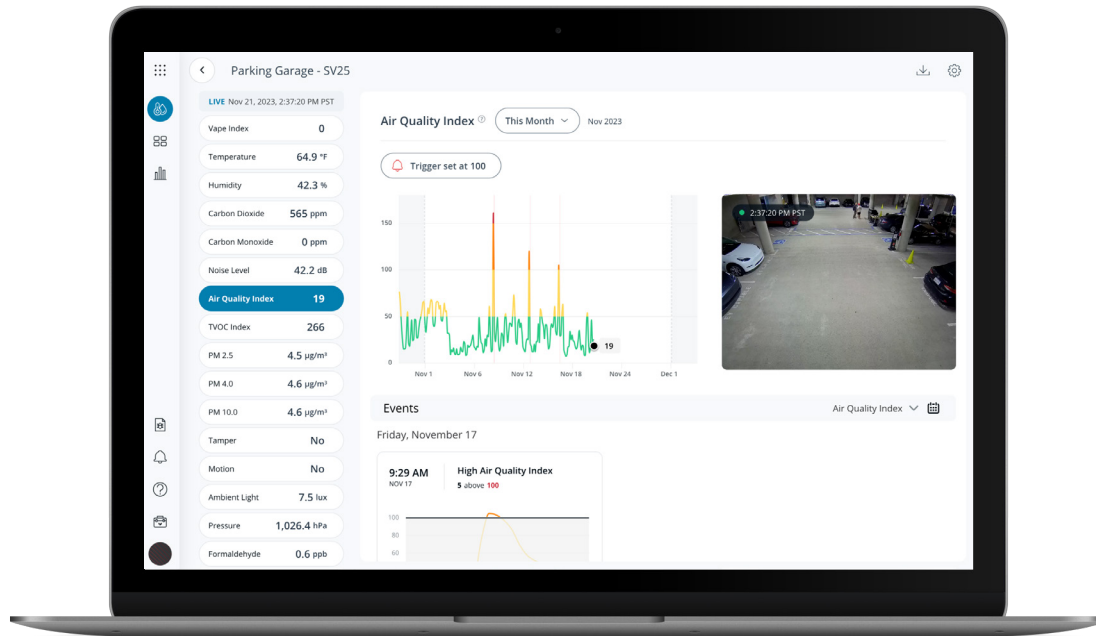
The Basic license and Regular license both offer our video security integration, BACnet integration, event analytics, customizable alerts, supported readings and sensor graphs. The Regular License further includes alert-associated people thumbnails, dashboards, calibration, live audio and recording, and sensor zones. The Basic license supports 30 days of historical data retention, while the Regular license supports 365 days.

	Basic LIC-SB-	Regular LIC-SV-
Supported Readings	All	All
Historical Data Retention	30 Days	365 Days
Video Security Integration	✓	✓
Sensor Graphs	✓	✓
Customizable Alerts	✓	✓
Event Analytics Page	✓	✓
BACnet Integration	✓	✓
Alert-Associated People Thumbnails	—	✓
Dashboard	—	✓
Calibrations	—	✓
Live Audio & Recording (SV25 only)	—	✓
Sensors Zones	—	✓



Verkada SV25 sensor

Air Quality and Safety Monitoring



The Verkada SV25 measures 15 unique environmental conditions including levels of carbon monoxide or formaldehyde in the air, and amounts of ambient light in an indoor room. It is designed to monitor specialty environments like laboratories, manufacturing facilities and warehouses.

This sensor can be used to safeguard workspaces from harmful conditions and common OSHA and EPA violations related environmental and workplace safety.

When integrated with a building's BACnet system, the SV25 allows organizations to control their environments based on any sensor reading.

The SV25 comes with unlimited cloud storage and a 10-year warranty.

Key features

All-in-one design

Sensors are secure end-to-end and capture multiple environmental conditions on a single device.

Cloud-managed

Verkada Command allows customers to view live and historical environmental conditions on any device from nearly anywhere.

Sensor dashboards

Simple-to-configure dashboards display live sensor data on any device to showcase environmental conditions.

Robust environmental monitoring

Sensors monitor for 15 different environmental conditions to provide robust coverage.

BACnet integration

Sensors Integrate with building HVAC systems that use the BACnet protocol.

10 year warranty

Environmental sensors are guaranteed to maintain peak operations throughout their lifetime.



SV25 Tech Specs

**SV25**

Power and network

Power Consumption	4W	Connectivity	RJ-45 cable connector for Network/PoE connection
Power Input	IEEE 802.3af PoE	LED Indicator	System power and status indicator

General

Operating Temperature	-5.0°C to +45.0°C (23.0°F to 113.0°F) Indoors	Offline Mode	Continues sampling and storing data on device
Operating Humidity	0.0 to 95.0%	Sampling Frequency	5 seconds
Storage	Device: up to 365 Days Cloud: up to 365 Days	Warranty	10 years

Compliance and availability

Availability	USA, CA, IN, UK, UK, EU, AUS, NZ, MX	Compliance & Safety	FCC Part 15B Class B, ICES-003 Class B, NDAA, UKCA, CE, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1
---------------------	---	--------------------------------	--

Software capabilities

Alerts	Device status, specific alerts for each sensor reading based on duration and reading level	Sensor Events	Configurable events for every on-device sensor reading
Alert Notifications	Configurable SMS and email notifications	Sensor Zones	Configurable alerts based on a group of sensors

Installation

Included Accessories	Mounting plate, installation kit, T10 security torx screwdriver, mounting screws, washers, drywall anchors and wing nut	Mounting Options	Horizontal & vertical for wall and ceiling mounts
Popular Install Locations	Manufacturing floors (on ceiling or on wall) Hard goods storage facilities (on ceiling or on wall)		



SV25 Tech Specs

**SV25**

Mechanical

Dimensions	Length: 170.0mm / 6.7in Width: 169.5mm / 6.7in Depth: 48.0mm / 1.9in	Weight	568.0g / 20.0oz
-------------------	--	---------------	-----------------

Dimensions



Onboard sensors

CO	Sensor: Electrochemical Range: 0 - 1000ppm	Barometric Pressure	Sensor: Piezoresistive Range: 300hPa - 1250 hPa Typical Accuracy: ± 50 Pa
Formaldehyde	Sensor: Electrochemical Range: 0.0 - 5000.0ppb Accuracy: ± 20.0 ppb or $\pm 20.0\%$ m.v., whichever is larger	Audio Recording	Sensor: Omnidirectional microphone
Light	Sensor: CMOS Range: 0.0 - 7000.0 lux Typical Accuracy: $\pm (6.0 + 5.0\%$ of reading) lux	Audio Retention	From 90 days to 365 days
Temperature	Sensor: CMOS Operating Range: -5.0 to 45.0°C (23.0 to 113.0°F) Typical Accuracy: $\pm 0.5^\circ\text{C}$ ($\pm 0.9^\circ\text{F}$), Max $\pm 1.0^\circ\text{C}$ / ($\pm 1.8^\circ\text{F}$)	CO₂	Sensor: Photoacoustic Range: 0.0 - 40,000.0 ppm Typical Accuracy: 400.0 ppm - 1000.0 ppm ± 75.0 ppm 1001.0 ppm - 2000.0 ppm $\pm (40.0$ ppm + 5.0% of reading)
Humidity	Sensor: CMOS Operating Range: 0.0 - 95.0% non-condensing Typical Accuracy: $\pm 3.0\%$ @ 25.0°C	Noise	Sensor: MEMS microphone, Range: 20.0 - 120.0 dB SPL (A-Weighted) Typical Accuracy: ± 5.0 dB
PM2.5	Sensor: Laser scattering optical Sensor Range: 0.0 - 10000.0 $\mu\text{g}/\text{m}^3$ Typical Accuracy: 0.0 - 100.0 $\mu\text{g}/\text{m}^3$: ± 10.0 $\mu\text{g}/\text{m}^3$ 100.0 - 1000.0 $\mu\text{g}/\text{m}^3$: $\pm 10.0\%$	Air Quality Index	Sensor: U.S. Air Quality Index derived from multiple sensors, Range: 0.0 - 500.0
TVOC Index	Sensor: MOX Range: 0.0 - 500.0	Vape Index	Sensor: Proprietary formula derived from multiple sensors Range: 0.0 - 100.0
Motion	Sensor: Passive infrared sensor, FoV: 120.0°	Heat Index	Sensor: Formula derived from other sensors Range: 23 °F to 160 °F
Humidex	Sensor: Formula derived from other sensors Range: 0-50	Dew Point Index	Sensor: Formula derived from other sensors Range: 23 °F to 122 °F
Mold Risk Index	Sensor: Formula derived from other sensors Range: 0-3 Index	RESET® Viral Index	Sensor: Formula derived from other sensors Range: 0% - 100%



FIPS-Validated SV25-F Sensor Tech Specs

**SV25-F**

Power and network

Power Consumption	4W	Connectivity	RJ-45 cable connector for Network/PoE connection
Power Input	IEEE 802.3af PoE	LED Indicator	System power and status indicator

General

Operating Temperature	-5.0°C to +45.0°C (23.0°F to 113.0°F) Indoors	Offline Mode	Continues sampling and storing data on device
Operating Humidity	0.0 to 95.0%	Sampling Frequency	5 seconds
Storage	Device: up to 365 Days Cloud: up to 365 Days	Warranty	10 years

Compliance and availability

Availability	USA	Compliance & Safety	FCC Part 15B Class B, ICES-003 Class B, NDAA, FY2019 NDAA compliant, TAA compliant
---------------------	-----	--------------------------------	--

Software capabilities

Alerts	Device status, specific alerts for each sensor reading based on duration and reading level	Sensor Events	Configurable events for every on-device sensor reading
Alert Notifications	Configurable SMS and email notifications	Sensor Zones	Configurable alerts based on a group of sensors

Installation

Included Accessories	Mounting plate, installation kit, T10 security torx screwdriver, mounting screws, washers, drywall anchors and wing nut	Mounting Options	Horizontal & vertical for wall and ceiling mounts
Popular Install Locations	Manufacturing floors (on ceiling or on wall) Hard goods storage facilities (on ceiling or on wall)		



FIPS-Validated SV25-F Sensor Tech Specs

**SV25-F**

Mechanical

Dimensions	Length: 170.0mm / 6.7in Width: 169.5mm / 6.7in Depth: 48.0mm / 1.9in	Weight	568.0g / 20.0oz
-------------------	--	---------------	-----------------

Dimensions



Onboard sensors

CO	Sensor: Electrochemical Range: 0 - 1000ppm	Barometric Pressure	Sensor: Piezoresistive Range: 300hPa - 1250 hPa Typical Accuracy: ± 50 Pa
Formaldehyde	Sensor: Electrochemical Range: 0.0 - 5000.0ppb Accuracy: ± 20.0 ppb or $\pm 20.0\%$ m.v., whichever is larger	Audio Recording	Sensor: Omnidirectional microphone
Light	Sensor: CMOS Range: 0.0 - 7000.0 lux Typical Accuracy: $\pm (6.0 + 5.0\%$ of reading) lux	Audio Retention	From 90 days to 365 days
Temperature	Sensor: CMOS Operating Range: -5.0 to 45.0°C (23.0 to 113.0°F) Typical Accuracy: $\pm 0.5^\circ\text{C}$ ($\pm 0.9^\circ\text{F}$), Max $\pm 1.0^\circ\text{C}$ / ($\pm 1.8^\circ\text{F}$)	CO₂	Sensor: Photoacoustic Range: 0.0 - 40,000.0 ppm Typical Accuracy: 400.0 ppm - 1000.0 ppm ± 75.0 ppm 1001.0 ppm - 2000.0 ppm $\pm (40.0$ ppm + 5.0% of reading)
Humidity	Sensor: CMOS Operating Range: 0.0 - 95.0% non-condensing Typical Accuracy: $\pm 3.0\%$ @ 25.0°C	Noise	Sensor: MEMS microphone, Range: 20.0 - 120.0 dB SPL (A-Weighted) Typical Accuracy: ± 5.0 dB
PM2.5	Sensor: Laser scattering optical Sensor Range: 0.0 - 10000.0 $\mu\text{g}/\text{m}^3$ Typical Accuracy: 0.0 - 100.0 $\mu\text{g}/\text{m}^3$: ± 10.0 $\mu\text{g}/\text{m}^3$ 100.0 - 1000.0 $\mu\text{g}/\text{m}^3$: $\pm 10.0\%$	Air Quality Index	Sensor: U.S. Air Quality Index derived from multiple sensors, Range: 0.0 - 500.0
TVOC Index	Sensor: MOX Range: 0.0 - 500.0	Vape Index	Sensor: Proprietary formula derived from multiple sensors Range: 0.0 - 100.0
Motion	Sensor: Passive infrared sensor, FoV: 120.0°	Heat Index	Sensor: Formula derived from other sensors Range: 23 °F to 160 °F
Humidex	Sensor: Formula derived from other sensors Range: 0-50	Dew Point Index	Sensor: Formula derived from other sensors Range: 23 °F to 122 °F
Mold Risk Index	Sensor: Formula derived from other sensors Range: 0-3 Index	RESET® Viral Index	Sensor: Formula derived from other sensors Range: 0% - 100%



Sensor Reading Overview

Robust environmental monitoring for vape detection and more

Vape Index



Verkada's Vape Index is a score derived from multiple sensors that is strongly correlated with vaping and/or smoking activity. Vape Index measurements outside of the green zone indicate suspected vaping/smoking activity, but could also reflect smoke or fumes from other sources. Smoke from cooking, burning fuel or wildfires may register highly on the Vape Index.

TVOC



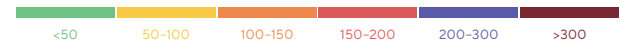
TVOC is a total measure of Volatile Organic Compounds, which are chemicals that evaporate into the air and are emitted by cleaners, paints, varnishes, fragrances and hundreds of other products. Examples include benzene, ethylene glycol and formaldehyde. Measured as a TVOC index, VOCs are measured as a group because of their cumulative effects, with high TVOC values associated with negative health impacts.

Noise Level



A measure of total noise level at the sensor. OSHA regulations state that noise levels cannot exceed 90 dBA over an 8 hour period, or 95 dBA over a 4 hour period.

Air Quality Index



The U.S. AQI measures total air pollution and provides benchmarks for healthy values. When AQI exceeds 100, air quality is unhealthy - at first for certain sensitive groups of people, then for everyone as AQI values get higher.

Carbon Dioxide (CO₂)



CO₂ measurements capture the absolute level of CO₂ in an environment. At levels of 800ppm or less, CO₂ is harmless. Between 800 and 2000ppm, CO₂ levels can be harmful to health, at levels above 2000ppm, CO₂ can be extremely harmful to human health.

Temperature



SV25 temperature measurements are accurate from 23°F - 122°F (-5 - 45°C). As with other data streams, users can customize temperature alerts if a space is kept at a temperature outside of the recommended green zone.

Motion

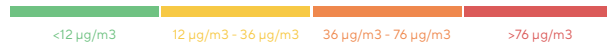
A measure of changes in infrared light absorption caused by the motion of warm bodies, as measured by a passive infrared sensor. Powered by the same technology as motion sensors for intrusion detection, a motion event indicates human/animal motion or other large changes in infrared activity.



Sensor Reading Overview

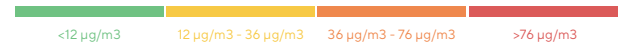
Robust environmental monitoring for vape detection and more

PM 2.5



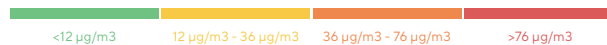
Particulate Matter 2.5 (PM 2.5) refers to tiny inhalable particles or droplets in the air that are less than 2.5 microns in width. PM 2.5 captures particulates from dust, vehicle exhaust, burning fuels, cooking, smoking and vaping. These particles can have a negative health impact.

PM 4.0



Particulate Matter 4.0 (PM 4.0) refers to tiny inhalable particles or droplets in the air that are less than 4.0 microns in width. PM 4.0 captures particulates from dust, vehicle exhaust, burning fuels, cooking, smoking and vaping. These particles can have a negative health impact.

PM 10.0



Particulate Matter 10.0 (PM 10.0) refers to tiny inhalable particles or droplets in the air that are less than 10.0 microns in width. PM 10.0 captures particulates from dust, vehicle exhaust, burning fuels, cooking, smoking and vaping. These particles can have a negative health impact.

Heat Index



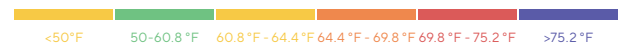
The heat index represents what the temperature feels like to the human body when relative humidity is combined with the temperature. It is derived from our existing temperature and humidity readings and uses the National Weather Service's heat index chart to calculate the reading value.

Mold Risk Index



The Mold Risk Index assesses the likelihood of mold growth in confined, unventilated spaces based on temperature and humidity levels. Higher temperatures combined with elevated humidity create ideal conditions for mold spores to thrive, making these factors key indicators of potential mold growth.

Dew Point Index



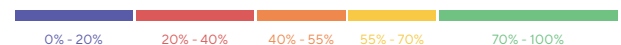
Dew point is the temperature at which air cools enough for water vapor to condense into dew or frost. Industries from transportation to agriculture often use this index to predict and mitigate risks from conditions like frost or fog.

Humidex



Similar to the heat index and commonly used in Canada, Humidex indicates how hot it feels to the average person. It is calculated using a formula developed by Canadian meteorologists.

RESET® Viral Index



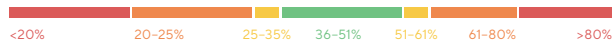
The RESET® Viral Index is designed to assess the likelihood of airborne virus transmission in indoor spaces, using research on virus transmission and applying it to continuous monitoring.



Sensor Reading Overview

Robust environmental monitoring for speciality environments

Relative Humidity



Relative humidity is the amount of moisture in the air compared to what the air can hold at that temperature.

Tamper Detection

Indicates if your device has been moved or tampered with.

Carbon Monoxide (CO)



Carbon Monoxide (CO) is an odorless, colorless gas that can be deadly. Measured in parts per million (ppm), CO is found in the fumes produced anytime fuel is burned on trucks, engines, stoves, grills or furnaces. Left undetected, CO can build up indoors and poison people or animals who breathe it.

Formaldehyde



Formaldehyde is a colorless, flammable gas that is used in many common compounds such as building materials, paints, fertilizers and as a byproduct of combustion from fuel-burning appliances or cigarette smoke. Formaldehyde has a strong odor and can cause irritation of the skin, eyes, nose and throat and can cause some types of cancer.

Ambient Light

With Verkada Sensors, you can understand light patterns, ensure a safe occupant experience and help improve building energy savings. Measured in lux, Ambient Light readings allow you to see light conditions in real time and set alerts based on customized thresholds to protect and optimize your spaces.

Barometric Pressure

Barometric pressure, or atmospheric pressure, is a measure of the weight of air. Measured in hectoPascals (hPa), barometric pressure is impacted by the outdoor climate and indoor conditions like running HVAC systems or temperature.

Audio Recording

An audio recording system powered by an omnidirectional digital microphone that can record up to 365 days of audio on any SV25 device. Audio recording is disabled by default and also comes with standard privacy features that ensure audio recording capabilities are deployed in a way that respects individuals' privacy.



Ordering Information

Air Quality pricing

The Basic license and Regular license both offer our video security integration, BACnet integration, event analytics, customizable alerts, supported readings and sensor graphs. The Regular License further includes alert-associated people thumbnails, dashboards, calibration, live audio and recording, and sensor zones. The Basic license supports 30 days of historical data retention, while the Regular license supports 365 days.

Air Quality

Model Number	Description	Cost (MSRP) USD
SV21-HW	SV21 Air Quality Sensor Hardware	\$699
SV23-HW	SV23 Air Quality Sensor Hardware	\$999
SV25-HW	SV25 Air Quality Sensor Hardware	\$1,299
SV25-128-HW	SV25 Air Quality Sensor Hardware	\$1,449

FIPS-Validated Air Quality

Model Number	Description	Cost (MSRP) USD
SV25-HW-F	SV25-F Air Quality Sensor Hardware	\$1,449



Ordering Information

Air Quality Cloud License (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-SV-1Y-CAP	1-Year SV License, Capacity Increase	\$249
LIC-SV-3Y-CAP	3-Year SV License, Capacity Increase	\$599
LIC-SV-5Y-CAP	5-Year SV License, Capacity Increase	\$999
LIC-SV-10Y-CAP	10-Year SV License, Capacity Increase	\$1,999
LIC-SV-1Y-CAP-G	1-Year SV License for Government, Capacity Increase	\$374
LIC-SV-3Y-CAP-G	3-Year SV License for Government, Capacity Increase	\$899
LIC-SV-5Y-CAP-G	5-Year SV License for Government, Capacity Increase	\$1,499
LIC-SV-10Y-CAP-G	10-Year SV License for Government, Capacity Increase	\$2,999

Air Quality Cloud License (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-SV-1Y-RNW	1-Year SV License, Renewal	\$249
LIC-SV-3Y-RNW	3-Year SV License, Renewal	\$599
LIC-SV-5Y-RNW	5-Year SV License, Renewal	\$999
LIC-SV-10Y-RNW	10-Year SV License, Renewal	\$1,999
LIC-SV-1Y-RNW-G	1-Year SV License for Government, Renewal	\$374
LIC-SV-3Y-RNW-G	3-Year SV License for Government, Renewal	\$899
LIC-SV-5Y-RNW-G	5-Year SV License for Government, Renewal	\$1,499
LIC-SV-10Y-RNW-G	10-Year SV License for Government, Renewal	\$2,999