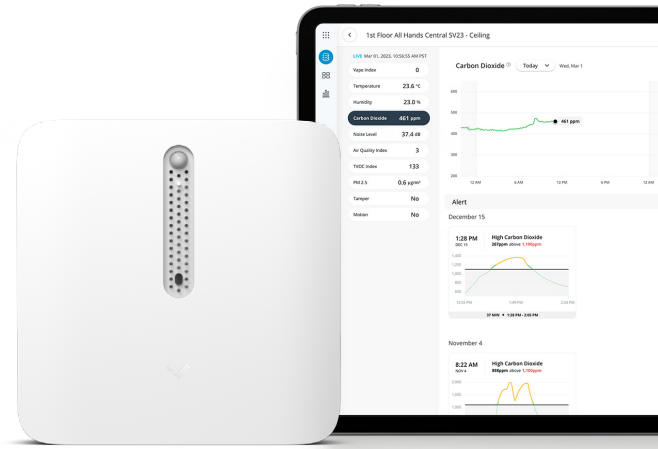
Verkada

Air Quality Sensors for Education

Protect students and schools with all-in-one sensors

Our air quality sensors improve the health and safety of school environments by:

- Detecting vaping in bathrooms and locker rooms
- Identifying possible bullying and vandalism in bathrooms and locker rooms
- Maintaining cool temperatures in server rooms or cold storage areas
- Monitoring indoor air quality to protect respiratory health

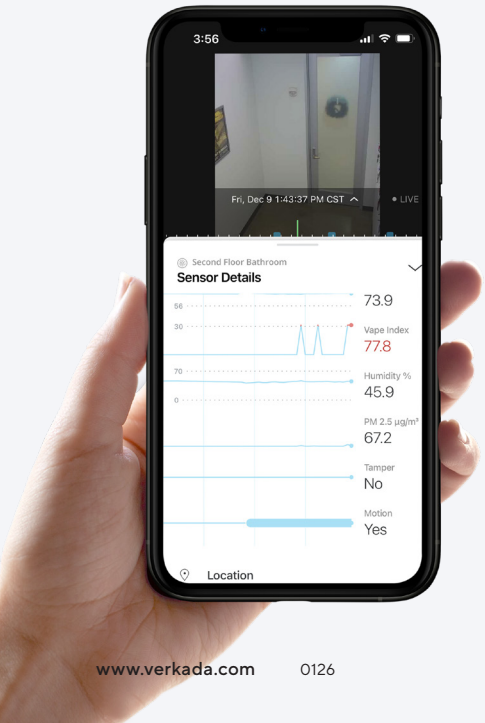


Trusted by countless school customers

"The Sensor cuts down our response time to incidents down to a matter of 2–3 minutes. We also use a combo of temperature, motion, and noise readings to detect large gatherings, fights and other scenarios in bathrooms that we don't want."

Dustin Osborne ,
Director of Technology
ISD 446 Independence, KS

Key benefits



Comprehensive coverage

Leverage an all-in-one device to monitor a wide range of readings, from vape detection to temperature to noise levels.

Integrated video context

Pair sensors to Verkada or third-party cameras for valuable visual context that speeds up investigations.

Customizable dashboard

Visualize and display sensor data, like AQI or CO2 levels, through tailored dashboards that keep stakeholders informed on air quality conditions.

Easy management

With just a PoE cable, bring sensors online in minutes, and manage deployments from virtually anywhere, any device.

Automated alerts

Easily create alerts, and receive immediate notifications for sensor events (e.g. vape detected, abnormal temperature or humidity) via phone or email.

Detailed reporting

Analyze historical data and sensor trends across your entire district to drive data-backed interventions and health strategies.

Use cases

Vape detection

Deploy vape and smoke detection sensors in bathrooms and locker rooms to identify on-campus vaping. Pair sensors with Verkada or third-party cameras positioned outside these areas to capture additional context, strengthen evidence, and deter repeat behavior.

Air quality monitoring

Monitor CO_2, AQI, and other critical air quality metrics to uncover unseen indoor pollutants that can contribute to headaches, fatigue, sore throats, and dizziness. Act on insights to improve indoor conditions and create healthier, more comfortable learning environments.

Bullying and vandalism

Use sensors in bathrooms and locker rooms to surface signs of bullying or vandalism. Detect sudden spikes in noise to flag disturbances, and monitor TVOCs to identify spray paint or other substances associated with graffiti. Leverage audio recording capabilities to verify bullying incidents, and help ensure private spaces remain safe for all students.

Server room and food storage monitoring

Protect critical IT infrastructure by monitoring temperature and humidity in IDF closets and server rooms. Trigger automated alerts when conditions fall outside preset thresholds to enable rapid response and maximize uptime. Extend monitoring to freezers and cold storage areas to reduce food spoilage and preserve freshness.

Sensor models

Choose from three sensor models based on your specific use case or indoor environment.

SV21

The SV21 includes:

- **Temperature**
- **Humidity**
- **Heat Index**
- **Humidex**
- **Dew Point**
- **Mold Risk Index**
- **Tamper**
- **Carbon Dioxide**

Best for

IDF closets
Cold storage areas

SV23

Everything in the SV21 Plus

- **Noise**
- **Motion**
- **Vape Index**
- **PM 2.5, 4.0, 10.0**
- **TVOC**
- **Air Quality Index**
- **RESET Viral Index**

Best for

Bathrooms
Locker rooms
Hallways
Classrooms

SV25

Everything in the SV23 Plus

- **Ambient Light**
- **Barometric Pressure**
- **Audio Recording**
- **Formaldehyde**
- **Carbon Monoxide**

Best for

Bathrooms
Locker rooms
Labs