



VAPE SENSOR

The CHI Vape Sensor is a high-precision LoRaWAN® air quality and vape detection device designed to safeguard environments where clean air, safety, and policy compliance are critical. Ideal for: Schools, Offices, Healthcare facilities, Public restrooms, Change rooms, Other sensitive areas. The CHI Vape Sensor delivers reliable detection, instant alerts, and remote monitoring.

Advanced Vape & Smoke Detection

Uses laser scattering sensing to detect vape aerosols and smoke particulates with a Vape Index range: 0–100 with ± 10 accuracy.

Comprehensive Environmental Monitoring

- Temperature: -20°C to 60°C , $\pm 0.2^{\circ}\text{C}$ accuracy
- Humidity: 0–100% RH, $\pm 2\%$ accuracy
- Total Volatile Organic Compounds (TVOC): 0–2000 $\mu\text{g}/\text{m}^3$
- Particulates: PM1.0, PM2.5, PM10

Built-In Anti-Tamper Protection

A vibration sensor detects interference, vandalism, or attempts to disable the device—triggering alerts instantly.

Resistant to False Alarms

Anti-water vapor disturbance logic reduces false triggering in bathrooms and humid spaces.



Vape, smoke,
PM1.0 / PM2.5 /
PM10, TVOC,
temperature,
humidity

Benefits for Your Organisation



Reduced Vaping & Smoking Incidents

Receive real-time notifications to enforce policies immediately.



Improved Indoor Air Quality

Continuous monitoring helps identify ventilation issues, chemical pollutants or aerosol buildup.



Enhanced Safety & Compliance

Ideal for child-sensitive or regulatory-driven environment.



Low Maintenance & Scalable

LoRaWAN® makes it cost-effective for multi-facility deployments (schools, large offices, campuses)

SPECIFICATIONS

Power

USB Type C 5V/1A or optional PoE splitter

Dimensions

128 mm diameter $\times$ 40 mm height

Tamper Detection

Built in vibration sensor

Ideal for schools, corporate spaces, healthcare facilities and restrooms. This discreet device detects vaping and air-quality risks in real time while preventing tampering, reducing false alarms and helping maintain clean, safe and compliant environments.