

## View Sense EQ

View Sense EQ provides accurate assessment of occupant exposure to four key indoor environmental quality (EQ) factors – air quality, thermal comfort, lighting and acoustics. In contrast to existing point solutions used to monitor setpoints in building systems, the View Sense EQ sensor array expands the understanding of key factors across the space using collaborative sensor fusion and machine learning algorithms.

This information allows building owners, employers, facilities managers and key stakeholders to better address the key environmental factors and create a more delightful environment – optimized for occupant comfort, health and productivity.

### Key Features

- Multi-factor indoor environmental quality (EQ) sensor array
- Sensors collaborate to assess key environmental factors impacting occupant comfort, health and productivity:
  - Air Quality: CO<sub>2</sub> and Total Volatile Organic Compounds (TVOC)
  - Thermal: Temperature and Relative Humidity
  - Light: Intensity and Correlated Color Temperature (CCT)
  - Acoustics: Ambient Sound Pressure Level
- The Sense EQ dataset eliminates exposure misclassification by covering an entire space over time rather than assuming single-point sensor measurements apply broadly across the space.
- Advanced visualization tools translate data and trends into actionable insights
- Can be mounted on window frames (mullions), walls and ceilings



### Benefits

- Enables continuous monitoring of key indoor environmental quality factors to ensure optimal occupant comfort, health and productivity
- Supports smart building approaches, enhanced operational efficiency, performance verification of building HVAC, lighting, acoustics, and energy and space usage

### Use Cases

- Commercial Offices
- Healthcare Facilities
- Educational Campuses
- Airports
- Hotels and Restaurants

## Environmental Quality Sensors



### Carbon Dioxide (CO<sub>2</sub>)

Prolonged exposure to carbon dioxide in the workplace is detrimental to occupants. It can cause individuals to experience drowsiness and reduced cognitive function.



### Chemicals (TVOCs)

Nearly all materials in the workplace off-gas volatile organic compounds into the air. Occupants who may not be aware of these hazards can experience health issues such as respiratory symptoms and asthma exacerbation.



### Temperature

Temperature has a major impact on occupant wellness. Workplaces that are too warm or too cold impact occupant comfort, satisfaction with the workspace and overall productivity.



### Humidity

Humidity in the workplace impacts occupant health and wellness. Spaces that are too humid can promote mold growth while spaces that are too dry can cause dry/itchy eyes and other flu-like symptoms.



### Light Levels (Lux and CCT)

Too much time indoors in sub-optimal lighting negatively impacts circadian rhythm, causing sleep and attention problems. In addition, glare and excessive light can lead to more frequent headaches.



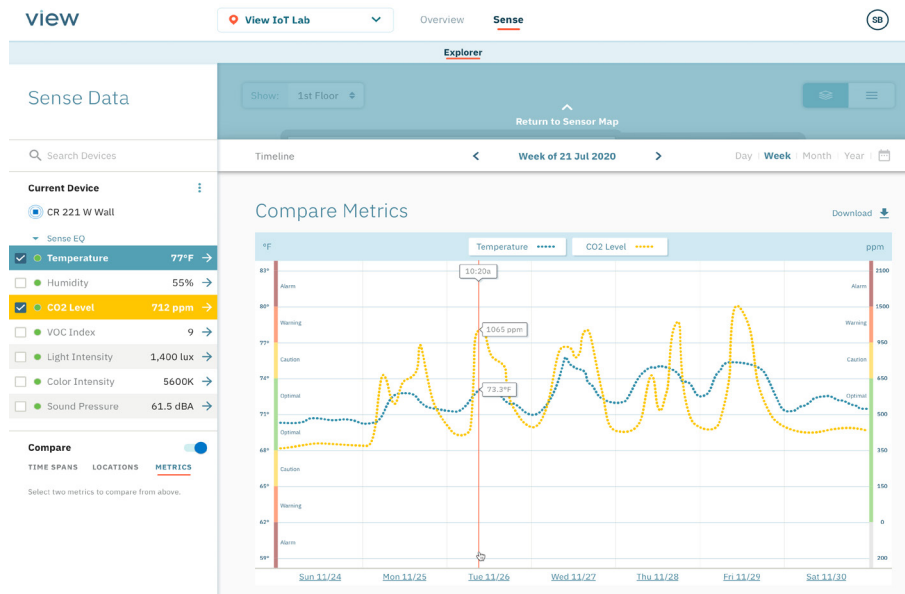
### Ambient Noise (dBA)

Loud noises in workplaces, especially in open office spaces, are not only annoying, but also harmful. These noises can cause stress, cognitive impairment, hearing loss and other health issues in occupants.

## Dimensions



## Data Set/API & Visualization



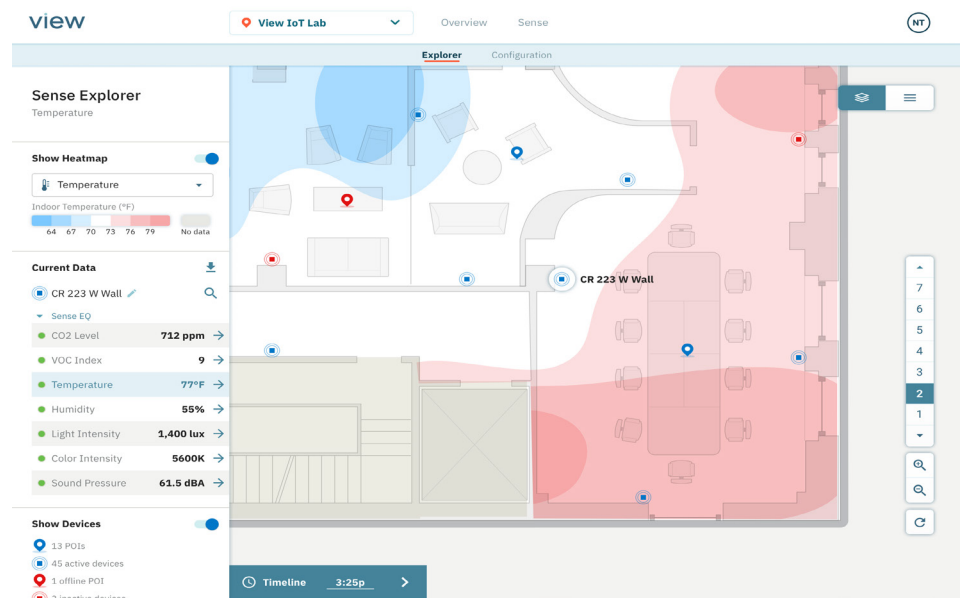
### Know your Indoor Environment Quality

- CO<sub>2</sub> level (ppm)
- Total VOC index
- Temperature (°C / °F)
- Relative Humidity (%)
- Light Intensity (Lux)
- Light Color Temperature/CCT (K)
- Sound Pressure Level (dBA)
- Realtime, location-aware environmental dataset
- Secure https endpoints to View Cloud
- Option to access via Open API

### Sense Dashboard

- Web portal for time series data visualization
- Multiple spatial monitoring
- Data comparison between sensors
- Color coded optimal data range specification
- Export data (pdf/csv) for diagnostic analysis

## Advanced Insights Engine



### Sense Dashboard with Advanced Insights Engine

- Color coded 2D/3D indoor key factor heat mapping
- Multiple space monitoring
- Configurable threshold and trend notifications
- Actionable insights & recommendations

## Specifications

EQ Sensors <sup>1</sup>	CO <sub>2</sub>	Operating Range: 100 - 5000ppm Accuracy: +/- 30ppm + 3% of reading (0 to 2000ppm), +/- 50ppm + 5% of reading (>2000 or <5000ppm)
	Total Volatile Organic Compounds (TVOC)	Operating Range: 0 - 100 index (see table 1 below) Accuracy: +/- 5 units
	Temperature	Operating Range: 0 - 45°C (32 - 113°F) Accuracy: +/- 0.5°C (+/- 0.8°F) at 18 - 28°C (64 - 82°F) +/- 1°C (+/- 1.8°F) at <18°C (<64°F) and >28°C (82°F)
	Humidity	Operating Range: 10 - 90% RH Accuracy: +/- 5% RH
	Light Intensity	Operating Range: 50 - 10,000 Lux Accuracy: +/- 20%
	Correlated Color Temperature (CCT)	Operating Range: 2,000K - 10,500K Accuracy: +/- 5%
Connectivity	Sound Pressure Level	Operating Range: 35 dBA - 95 dBA Precision: +/- 5 dBA
	Wired and Power	Gigabit Ethernet, PoE 802.3af; industrial IX connector
Installation	Wireless	Bluetooth 5.0, UWB
	Coverage	Open areas: 1,000 - 1,500 square feet per sensor Enclosed areas: minimum one per enclosed area (e.g. office, conference room)
General	Mounting Configuration	Mullion cap, wall, ceiling
	Faceplate Color Options	Black, White
	Dimensions	2.0"W x 8.0"H x 1.0"D (51 x 203 x 25mm)
	Weight	20 oz. (570g)
	Power Consumption	2 Watts (max.)

1. Operating range and precision are specified over the service life of the product and do not assume or require field recalibration.