HAVEN™ | BREATHE BETTER

TECH SPECS
HAVEN CENTRAL AIR MONITOR

CENTRAL AIR MONITOR

In-duct monitor integrates with forced air HVAC systems to track indoor air quality

- Individually calibrated for reliable performance
- WiFi-connected with secure cloud storage
- Simple install process with in-app guide
- Rich software ecosystem to interact with the data (mobile & web apps)
- Solid state design reduces maintenance requirements
- Exclusive to the Pro Channel

REQUIREMENTS

INSTALLATION

Suitable for

- Round and rectangular ducts (minimum duct size is 8")
- Rigid, flex & ductboard

Min. 24" away from duct bends

Probe must be perpendicular to airflow

Angle of device relative to airflow needs to be <10°

Mobile device (iOS or Android) running HAVEN IAQ app to connect device to WiFi network

CONNECTIVITY

Provisioning: Bluetooth LE

Transmission: 2.4GHz b/g/n WiFi

Security: WEP, WPA/WPA2

Communication interval: 1x every 5 minutes

POWER*

Wired: 24V AC; 14–22AWG

Power consumption: 2W

OPERATING CONDITIONS

For indoor use only

Temperature: 23–122°F / -5–50°C

Relative Humidity: 0–95% non-condensing

HAVEN INTEGRATIONS

CENTRAL AIR CONTROLLER

Works with HAVEN Central Air Controller to automate HVAC equipment & improve indoor air quality

DETECTION

CONNECTIVITY

Laser light scattering technology

Reporting parameter: PM2.5 mass concentration

Range: 0 µg/m³ to 1000 µg/m³

Resolution: 0.1 µg/m³

Precision: > 0.94 (*R2 compared to research-grade instrumentation)

Repeatability: > 90%

CHEMICALS (tVOC)

Range: 0–1200ppb

Resolution: 1 ppb

Units: parts per billion and Equivalent Mass Concentration (µg/m³)

Precision: 0.99 (*R2 compared to research-grade instrumentation)

Repeatability: > 90 %

TEMPERATURE

Range: 32–122°F / 0–50°C

Precision: ± 1.8°F / 1°C

RELATIVE HUMIDITY

Range: 5–95%

Precision: ±3%

INTERACTIVITY

LED

LED indicates current state (e.g. connecting to WiFi, sending telemetry, WiFi connection issue)

HAVEN IAQ APP

Available for iOS and Android

Allows homeowners to manage their air quality data, as well as automations when connected with HAVEN Controller

Notifies user when there are filtration, ventilation, and humidity events that cross set thresholds

Notifies user when filter change is required

ABOUT

MATERIAL

Glossy PC ABS plastic housing; copper stamped emboss and laser etched artwork

MOUNTING PLATE

Dims: 2.6" x 3.3" x 0.6"

Weight: 0.9oz / 26g

PROBE

Dims: 8.6" x 1.2" x 0.9"

Weight: 2.45oz / 71 g

ADDITIONAL INFO

Availability: Pro Channel

Warranty: 2 years

Anticipated Lifetime: 10 years

* Power Supply not included

CENTRAL
AIR CONTROLLER

Automates HVAC equipment to improve indoor air quality

- Works with the HAVEN Central Air Monitor, using IAQ sensor data to automate HVAC equipment

- Control filtration, ventilation, and de/humidification equipment based on real-time data to optimize IAQ

- Rich software ecosystem to interact with the data (mobile & web apps)

- Exclusive to the Pro Channel

TECH SPECS
HAVEN CENTRAL AIR CONTROLLER

REQUIREMENTS

INSTALLATION

The blower fan on most central air handler's can be controlled using the terminals R&G

For installation on other equipment types, please refer to installation instructions on our website and in the Pro Portal

Mobile device running the HAVEN IAQ app (iOS & Android) to connect device to WiFi network

CONNECTIVITY

Provisioning:
4.2 Bluetooth Low Energy

Transmission:
2.4 GHz 802.11 b/g/n WiFi

Security:
WPA / WPA2, Open

Communication interval:
1x every 10 seconds

POWER*

The Controller contains electronics that require constant 24V power. Power can be supplied by the central air handler's terminals R & C. Alternatively, power can be supplied from a separate 24V transformer

Wired:
24 V AC; 16 - 24 AWG

Power consumption: 1 W

IO RATING

Rated current: 2A max per channel

Rated voltage: 24VAC max

OPERATING CONDITIONS

For indoor use only

Temperature:
23–122˚F / -5–50˚C

Relative Humidity: 0–95% non-condensing

HAVEN INTEGRATIONS

CENTRAL AIR MONITOR

The Controller activates HVAC equipment based on the data being tracked by the Monitor in real time

OTHER EQUIPMENT

Allows for on-demand IAQ control, such as overriding of schedules

INTERACTIVITY

LED

RGB LED indicates the current device state (e.g. connecting to WiFi, system error)

Two further green LEDs indicate the port states

HAVEN IAQ APP

Available for iOS and Android

Allows homeowners to set HVAC fan schedule independent of any heating or cooling action, and automate connected equipment (e.g. ERV, HRV, dehumidifier)

ABOUT

MATERIAL

Glossy PC ABS plastic housing; copper stamped emboss and laser etched artwork

DEVICE

Dims: 5.5" x 1.37" x 0.78"

Weight: 1.59oz / 45.32g

ADDITIONAL INFO

Availability: Pro Channel

Warranty: 2 years

Anticipated Lifetime: 10 years

Interested in HAVEN?
Get in touch.

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HAVENIAQ.COM