

## 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** 



## TECH SPECS HAVEN CENTRAL AIR MONITOR

#### **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

Provisionina: 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/m<sup>3</sup>

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 IAO 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:** 

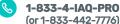
10 years

\* Power Supply not included













# 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**