

PMWTPC2AV



PMWXPC2AV

PMW Protocol Series

Wall Mount Particulate Matter Sensors

c UL us LISTED

Veris Industries
Stratford Park 5
Telford TF3 3BL
United Kingdom

⚠ WARNING



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E or CSA Z462.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

Failure to follow these instructions can result in death, serious injury or equipment damage.

This product is intended for use in HVAC and building environmental control applications.
It is not intended for direct medical monitoring of patients.
It is not intended for life-safety applications.
Read and understand these instructions before installing this product.
The installer is responsible for all applicable codes.
If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this material.

Product Overview

The PMW Protocol Series of air quality sensors for living space is a flexible all-in-one platform for use with BAS controllers designed to accept BACnet or Modbus outputs. PMW Protocol Series sensors are available with two user interface options: touchscreen and blank. Both user interfaces come with temperature, RH, CO_2, VOC, PM1, PM2.5, PM4 and PM10, all in the same device.

Product Identification

Model	Description
PMWTPC2AV	PM, Wall, Touch, CO_2, RH 2%, Temp, Xmtr, VOC, Prot
PMWXPC2AV	PM, Wall, Blank, CO_2, RH 2%, Temp, Xmtr, VOC, Prot

Replaceable PM Modules

Model	Description
PMSX	PM, Replacement Module

Specifications

OPERATING ENVIRONMENT	
Input Power	Class 2; 20 to 30 Vdc, 24 Vac, 50 to 60 Hz
Protocol Output	BACnet or Modbus via RS-485, selectable
Operating Temp. Range	0 to 50 °C (32 to 122 °F)
Operating Humidity Range	0 to 95% RH non-condensing
Housing Material	High impact ABS plastic
IP Rating	IP 30
Mounting Location	For indoor use only. Not suitable for wet locations.
Surface Mount	The device can be surface mounted on Single Gang J-Box, British Standard and CE60 wall boxes
PM SENSOR	
Range	0 to 1,000 µg/m^3
Accuracy	PM1 and PM2.5: 0 to 100 µg/m^3 +/-[5µg/m^3+5% m.v.], 100 to 1000 ug/m^3 +/-[10% m.v.] PM4 and PM10*: 0 to 100 µg/m^3 +/-[25µg/m^3], 100 to 1,000 µg/m^3 +/-[25% m.v.] (sensor-to-sensor deviation)
CO_2 SENSOR	
Sensor Type	Non-dispersive infrared (NDIR), diffusion sampling
Output Range	0 to 10,000 ppm
Accuracy	±30 ppm ±3% of measured value
Repeatability	±20 ppm ±1% of measured value
Response Time	<60 seconds for 90% step change
VOC TRANSMITTER	
Sensor Type	Solid state
Output Range	0 to 100% AQI for VOC

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com 0824
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

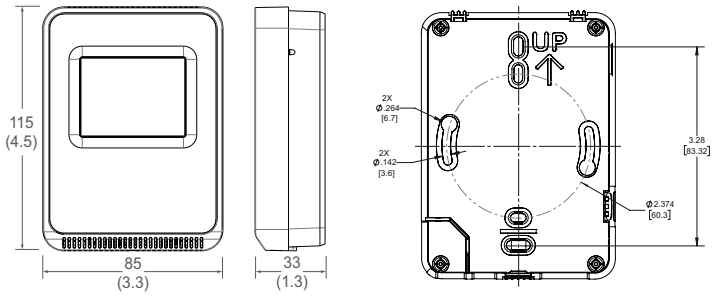
Specifications (cont.)

Accuracy	±15% of measured value		
Output Scale	0 to 1,000 ppb of total VOC (TVOC)		
	Level	**Ventilation Reccomendation**	**TVOC (ppb)**
AQI Table**	>61%	Greatly increased	>610
	20 to 61%	Significantly increased	200 to 610
	10 to 20%	Slightly increased	100 to 200
	5 to 10%	Average	50 to 100
	0 to 5%	Target value	0 to 50
RH SENSOR			
Sensor Type	Solid state capacitive, replaceable		
Accuracy (Includes Hysteresis)***	±3.8% RH from 10 to 60% RH @ 25°C (77 °F) ±4.8% RH from 60 to 80% RH @ 25°C (77 °F) ±5.8% RH from 80 to 100% RH @ 25°C (77 °F)		
Linearity	Included in accuracy specification		
Stability	±1% @ 20°C (68 °F) annually for 2 years		
Output Range	0 to 100% RH		
Temperature Coefficient	±0.1% RH/°C above or below 25 °C (77 °F) typical		
TEMPERATURE SENSOR			
Sensor Type	Solid state, integrated circuit		
Accuracy	±0.2 °C (±0.4 °F) typical		
Resolution	0.1 °C (0.1 °F)		
Range	0 to 50 °C (32 to 122 °F)		
DISPLAY MODELS			
Touchscreen	61 mm (2.4 in), color, backlit, capacitive, 240x300px Setpoint: 0-10Vdc. Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout		
SETPOINTS****			
Temperature Setpoint	Scale: 0 to 50 °C (32 to 122 °F) max., adjustable span		
Humidity Setpoint	Scale: 0 to 100% RH		
Fan Speed Setpoint	Off, Low, Medium, High, Auto		
OVERRIDE			
Override Button	Display models feature momentary override button		
WIRING TERMINALS			
Terminal Blocks	Screw terminals, 18-24 AWG		
Screw Terminal Torque	0.2 N-m (2.0 in-lbF) max.		
WARRANTY			
Limited Warranty	5 years		
REGULATORY INFORMATION			
Agency Approvals	UL 916, European conformance CE: EN 60730-1, EN 60730-2-9, EN 60730-2-13, EN 61000-6-2, EN 61000-6-3, EN 61000 Series - Industrial Immunity, EN 61326-1 FCC Part 15 Class B, REACH, RoHS, RCM (Australia), ICES-003 (Canada), UKCA (UK)		

**PM4 and PM10 output values are calculated based on distribution profile of all measured particles.*
***Air Quality Index for VOC aligns with TVOC levels for IAQ as specified by the WHO (World Health Organization).*
****Humidity sensor overall accuracy should include: accuracy, temperature coefficient and stability. Humidity accuracy is shown as an absolute value, so if testing accuracy with a hand-held device, you must check for deviation in its readings instead of calculating the percentual deviation. Additionally, you must consider the overall accuracy of the hand-held device in the comparison.*
***** On display models only.*

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Dimensions - mm (in.)

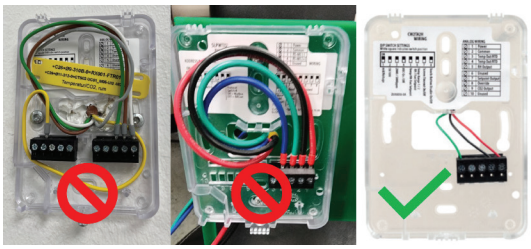


Installation

NOTICE

PRODUCT DAMAGE AND INACCURATE READINGS

- Mount product vertically at a height that is between 3 to 5 feet (0.9 to 1.5 meters) above the floor [or 4 feet (1.2 meters) where the Americans with Disabilities Act needs to be followed]
- Mount product on a wall that is NOT exposed to the outside
- Install product far from windows, heat sources, door frames and at a minimum distance of 6 inches (15 centimeters) from any corner
- Drafts through conduits or other holes in the wall should be eliminated by plugging appropriate material into the cavity.
- Keep product wall mounted base cleared from any wire or other external material:



Failure to follow instructions can result in reduced accuracy, equipment damage or sensor fault.

1. Remove the cover from the base at the bottom of the device.



 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

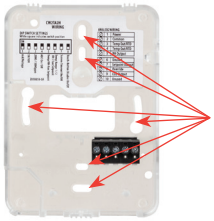
2. Position the sensor base vertically on the wall 1.35 m (4.5 ft.) above the floor with the "UP" arrow facing upward. Locate away from windows, vents and other sources of draft. If possible, do not mount on an external wall, as this may cause inaccurate temperature readings.



3. Pull 18 or 22 AWG cable(s) through the hole in the backplate.

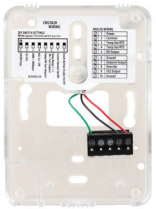


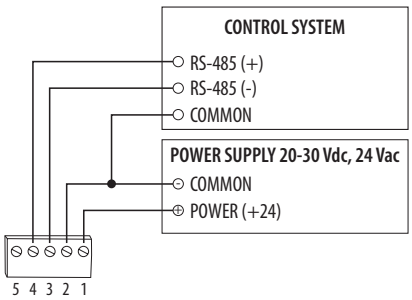
4. Mount the backplate onto the wall using the screws provided.



Six screw holes available. Use a minimum of two for secure mounting.

5. Connect the wires to the screw terminals. Do not over-tighten the screws.





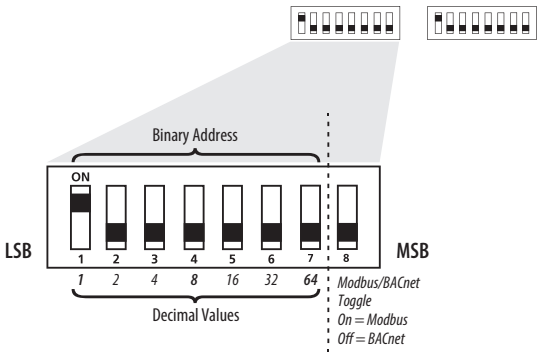
 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com 0824
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

6. Configure the device.

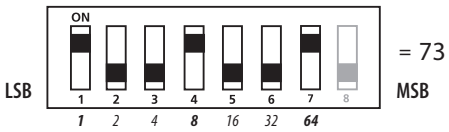
Address Configuration:
Each device on a single network must have a unique address. Set the DIP switch labeled "ADDRESS" to assign a unique address before the device is connected to the network. If an address is selected that conflicts with another device, neither device will be able to communicate.

Address the device as any whole number between and including 1 to 127. Note that zero is not a valid address for Modbus; zero is a valid address for BACnet. Positions 1 through 7 of the "ADDRESS" DIP switch designate the address. Position 8 toggles between the Modbus and BACnet communication protocols, as shown in the diagram below. This is the left bank of DIP switches on the sensor.



To set an address using the DIP switch, simply add the values of any switches that are in the ON position.

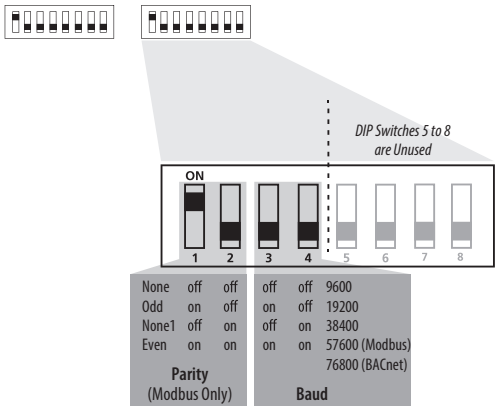
For example, an address of 73 is set as shown in the diagram below.



Position number 1 has an ON value of 1, position number 4 has an ON value of 8 and position number 7 has an ON value of 64 (1 + 8 + 64 = 73).

Communications Configuration:
The following parameters are configurable:

- Parity (Modbus only): None, Odd, None1 (one stop bit), Even
- Baud rate: 9600, 19200, 38400, 57600 (Modbus), 76800 (BACnet)



 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

Example: No Parity, 19200 Baud

1	2	3	4	5	6	7	8
off	off	on	off	off	off	off	off
None		19200 Baud		Unused			

Modbus Point Map

Function Codes:

Function Code	Function
03	Read holding (RW) registers
04	Read input (RO) registers
06	Write single register*
16	Write multiple registers
01	Read coils
05	Write single coil
15	Write multiple coils

** Not supported.*

All of these values correspond to BACnet objects with the same name. See the BACnet Conformance Statement for their definitions. Note that an attempt to write to "read only" holding registers will give an error and the entire write command will not be executed even if writing to read/write locations were also requested. Exception code 2 is given in this case. "Preserved" means the values is maintained through power outages.

32-Bit Input Registers (Read Only):

16-Bit Register Location	Description	Format
1	Temp reading	32-bit floating point
2		
3	Humidity reading	32-bit floating point
4		
5	CO_2 reading	32-bit floating point
6		
7	VOC reading	32-bit floating point
8		
9	Model number	4x16-bit ASCII characters as a single query
10		
11		
12		
13		
14~41	Unused	NA
42	Serial number	4x16-bit ASCII characters as a single query
43		
44		
45		
46	PM1 reading	32-bit floating point
47		
48	PM2.5 reading	32-bit floating point
49		
50	PM4 reading	32-bit floating point
51		
52	PM10 reading	32-bit floating point
53		

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

32-Bit Holding Registers (Read/Write):

16-Bit Register Location	Description	Format
1	Temp setpoint	32-bit floating point
2		
3	Humidity setpoint	32-bit floating point
4		
5	Screen color set	32-bit
6		
7~39	Device name	4x16-bit ASCII characters as a single query
40	Fan speed	32-bit
41		
42	CO_2 yellow threshold	32-bit floating point
43		
44	CO_2 red threshold	32-bit floating point
45		
46	PM yellow threshold	32-bit floating point
47		
48	PM red threshold	32-bit floating point
49		
50	PM displayed value	32-bit
51		
52	Offsets temp by this value	32-bit floating point
53		
54	Offsets humidity by this value	32-bit floating point
55		
56	Offsets CO_2 by this value	32-bit floating point
57		
58	Offsets VOC by this value	32-bit floating point
59		
60	Offsets PM1 by this value	32-bit floating point
61		
62	Offsets PM2.5 by this value	32-bit floating point
63		
64	Offsets PM4 by this value	32-bit floating point
65		
66	Offsets PM10 by this value	32-bit floating point
67		

Note: All holding registers are preserved during power outages.

Coils (Read/Write):

Register	Description
2*	CO_2 stoplight
3*	Touchbutton disable
4*	Invoke CO_2 calibration
5*	Temperature (°C)
6	Occupancy override
7*	Touch timeout

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

Register	Description
8*	Display shows humidity
9*	Display shows CO_2 level
10*	Display shows VOC level
11	Set 400ppm as CO_2 baseline
12*	Display shows temperature setpoint on main screen
13*	PM stoplight
14*	Display shows setpoint

**Preserved during power outages.*

BACnet Descriptions

Note: In the tables below, all properties are read-only unless otherwise noted. "Preserved" means the value is maintained through power outages.

Present_Value Range Restrictions:

Object Name	Minimum Value	Maximum Value
DEV - Object_Name	1 Character	65 Characters
Temperature Setpoint Min_Pres_Value Max_Pres_Value	Min_Pres_Value 0 Min_Pres_Value +1	Max_Pres_Value Max_Pres_Value -1 50
Humidity Setpoint Min_Pres_Value Max_Pres_Value	Min_Pres_Value 0 Min_Pres_Value +1	Max_Pres_Value Max_Pres_Value -1 100
Screen Color	1	4
CO2 Yellow Limits	400	10,000
CO2 Red Limits	400	10,000
Fan Speed	1	5
Device_Instance	0	4,194,302
PM Yellow Limits	4	100
PM Red Limits	4	100
Temp Offset	-5	5
Humidity Offset	-10	10
CO2 Offset	-250	250
VOC Offset	-10	10
PM1 Offset	-10	10
PM2.5 Offset	-10	10
PM4 Offset	-10	10
PM10 Offset	-10	10
PM Displayed Value	1	5

Standard Object Types Supported:

Object Type	Supported Optional Properties	Writable Properties
Analog Input - AI	Reliability	None
Analog Value - AV	Min_Pres_Value Max_Pres_Value	Min_Pres_Value Max_Pres_Value Present_Value
Binary Value - BV	None	Present Value
Multistate Value - MSV	None	Present Value
Device - DEV	Max Info Frames Max_Master	APDU_Timeout Max_Master Object_Name

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

Objects Table:

Object Name	Object Identifier	Object Property
Room Temperature	AI 1	Temperature in room
Room Humidity	AI 2	Humidity in room
CO2 Sensor	AI 3	CO_2 concentration
VOC Sensor	AI 4	VOC level
PM1 Sensor	AI 5	PM1 concentration
PM2.5 Sensor	AI 6	PM2.5 concentration
PM4 Sensor	AI 7	PM4 concentration
PM10 Sensor	AI 8	PM10 concentration
Temperature Setpoint*	AV 1	Setpoint value for temperature
Humidity Setpoint*	AV 2	Setpoint value for humdidity
CO2 Yellow Limit*	AV 3	CO_2 threshold at which the screen color changes from green to yellow
CO2 Red Limit*	AV 4	CO_2 threshold at which the screen color changes from yellow to red
PM Yellow Limit*	AV 5	PM (selected size) threshold at which the screen color changes from green to yellow
PM Red Limit*	AV 6	PM (selected size) threshold at which the screen color changes from yellow to red
Temperature Offset *	AV 7	Offset value to add to the temperature sensor output value
Humidity Offset*	AV 8	Offset value to add to the humidity sensor output value
CO2 Offset*	AV 9	Offset value to add to the CO_2 sensor output value
VOC Offset*	AV 10	Offset value to add to the VOC sensor output value
PM1 Offset**	AV 11	Offset value to add to the PM1 sensor output value
PM2.5 Offset	AV 12	Offset value to add to the PM2.5 sensor output value
PM4 Offset*	AV 13	Offset value to add to the PM4 sensor output value
PM10 Offset*	AV 14	Offset value to add to the PM10 sensor output value
CO2 Stoplight*	BV 1	ACTIVE enables CO_2 Stoplight INACTIVE disables CO_2 Stoplight
Touch Disable*	BV 2	ACTIVE disables touch response INACTIVE enables touch response
CO2 ABC Cal*	BV 3	ACTIVE enables ABC calibration INACTIVE disables ABC calibration
Temperature Units*	BV 4	ACTIVE displays temperature in degrees Fahrenhiet INACTIVE displays temperature in degrees Celsius
Occupancy Override	BV 5	ACTIVE means room is not occupied INACTIVE means room is occupied
Screen Timeout*	BV 6	ACTIVE enables screen timeout INACTIVE disables screen timeout
Display Humidity*	BV 7	ACTIVE displays humidity on screen INACTIVE removes humdity from screen
Display CO2*	BV 8	ACTIVE displays CO_2 level on screen INACTIVE removes CO_2 level from screen
Display VOC*	BV 9	ACTIVE displays VOC level on screen INACTIVE removes VOC level from screen

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

Object Name	Object Identifier	Object Property
CO2 FRC 400	BV 10	ACTIVE sets 400 ppm as CO_2 baseline after Present_Value is read INACTIVE leaves CO_2 baseline in last state (no action)
Select Temperature Display*	BV 11	ACTIVE displays temperature setpoint on main screen INACTIVE displays temperature setpoint in upper left corner and current temperature on main screen
PM Stoplight*	BV 12	ACTIVE enables PM Stoplight INACTIVE disables PM Stoplight
Display Setpoint*	BV 13	ACTIVE enables temperature setpoint display on home screen INACTIVE disables temperature setpoint display on home screen
Screen Color Set*	MSV 1	Selection for screen color theme
Fan Speed*	MSV 2	Fan speed selection
PM Selection*	MSV 3	Selection for PM size value to display on main screen and use for PM Stoplight

** Preserved during power outages.*

Device Objects Table:

Object Name	Object Identifier	Object Property	Description
Living Space Room Unit XXXXXXX	Vendor_ID + nnn	Object _Identifer (R/W)	Unique value where nnn initially is the MS/TP address

BACnet Protocol Implementation Conformance Statement
Vendor Name: Veris Industries
Product Name: Living Space Room Unit
Product Model: CW2XXXX
BACnet Protocol Version : 1
BACnet Protocol Revision: 16
Product Description: Environmental Sensor
BACnet Standardized Device Profile (AnnexL):
BACnet Application Specific Controller (B-ASC)
List All BACnet Interoperability Building Blocks Supported(Annex K):
DS-RP-B, DS-RPM-B, DS-WP-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B
Data Link Layer Options: MS/TP (Clause 9), baud rates, 9600, 19200, 38400, 76800
Device Address Binding: Static Device binding is not supported.
Networking Options: None
Character Sets supported: ISO 10646 (UTF-8)

7. With sensor base fully installed, align top of cover to mounting tabs on top of sensor base. Swing cover downward until it latches at the bottom.



 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Installation (cont.)

8. Install locking screw to secure cover in closed position.



PM Sensor Communication Check

During boot-up, the LED located on the right side of the unit will illuminate and then blink once if the PM sensor is properly connected. However, if the LED illuminates and then blinks five times at a quicker pace, this indicates a communication issue with the PM sensor leading to a steady 0µg/m^3 outputted value.

If the LED blinks due to a communication problem, the most likely cause is that the adapter board connecting the PM sensor to the main PCBA is disconnected. In this case, the adapter board should be pressed down to ensure its connection with the main PCBA.

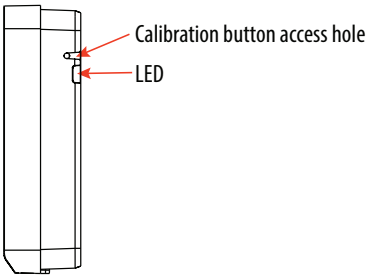
On the next boot-up, ensure the LED is illuminated and then only blinking once, confirming the connection of the PM sensor.

CO_2 Sensor Calibration

There are two methods for CO_2 calibration available on touchscreen models only: 400 ppm baseline calibration and automatic baseline calibration (ABC).

400 ppm Baseline Calibration

400 ppm baseline calibration allows the sensor to be set at 400 ppm. Push and hold the calibration button for 3 to 5 seconds. The LED will flash green. Once the button is released, calibration is complete and the LED switches off.



Automatic Baseline Calibration (ABC)

The ABC mode addresses the 400 ppm calibration. It allows turning on or off a background correction/recovery mode that will minimize any calibration error that has been caused by shock during handling and transportation or is caused by a long term shift in measurement. The ABC algorithm constantly keeps track of the sensor's lowest reading over a preconfigured time interval and slowly corrects for any long-term drift detected as compared to the expected fresh air value of 400 ppm. After initial startup, it is expected that the sensor reaches specified accuracy after 7 to 21 days.

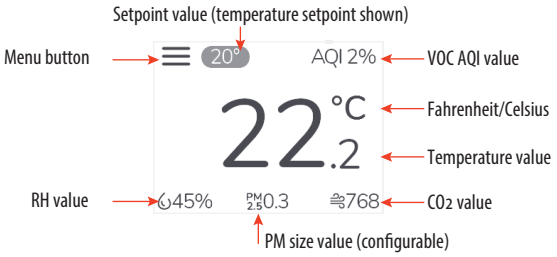
 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries. Other companies' trademarks are hereby acknowledged to belong to their respective owners.

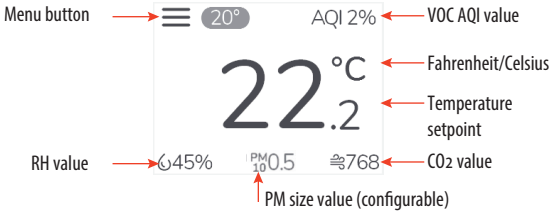
Touchscreen Operation

Main Screen

The touchscreen user interface displays applicable sensor output values (temperature, RH, CO_2 and PM2.5), setpoint value, menu button and CO_2/PM2.5 stoplight status (if enabled).



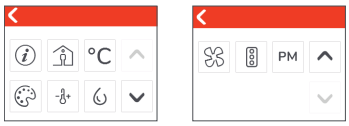
Room Temperature Display Option



Temperature Setpoint Display Option

Menu Screen

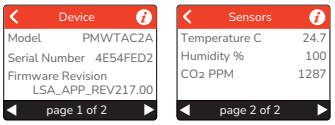
The menu screen opens when pressing the Menu button on the main screen. Integrator's submenu, occupancy/override, Fahrenheit/Celsius, settings, setpoint submenu (temp, RH or fan, determined by DIP switch settings) and CO_2 stoplight buttons are displayed on the menu screen.



Menu Button Functions

Integrator's Submenu
Press this icon to access the Integrator's menu.

Submenu Only

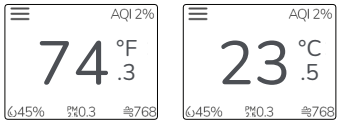


Occupied Override Button
Press this icon to provide momentary ground output to the controller

Single Press Only
Signals occupied/override call to controller.

Fahrenheit/Celsius Switch
Press this icon to display either °C or °F.

Single Press Only
°F Changes units to Fahrenheit when pressed.
°C Changes units to Celsius when pressed.

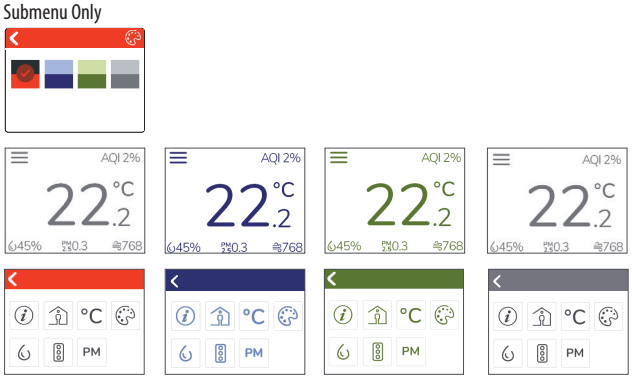


 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com 0824
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Touchscreen Operation (cont.)

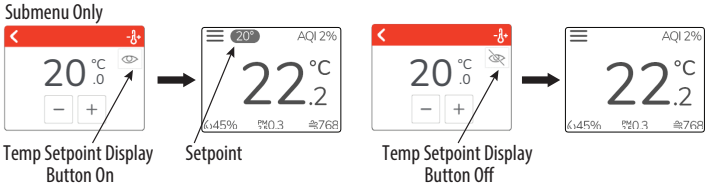
Settings
This icon provides the ability to change the color scheme of the display.

Submenu Only



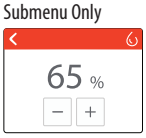
Temp Setpoint Adjustment
Click this icon to access the setpoint change menu.
Toggle the Temp Setpoint Display button to display or hide the setpoint value on the home screen.

Submenu Only



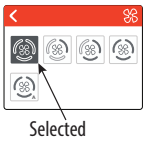
Humidity Setpoint Adjustment
Click this icon to access the setpoint change menu. Mutually exclusive with humidity and fan speed. Set by DIP switch.

Submenu Only



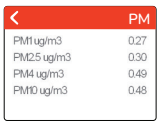
Fan Speed
Click this icon to access the fan speed menu. Mutually exclusive with humidity and fan speed. Set by DIP switch.

Submenu Only



PM Display
Click this icon to see all four PM size values in the same screen.

Submenu Only



 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com

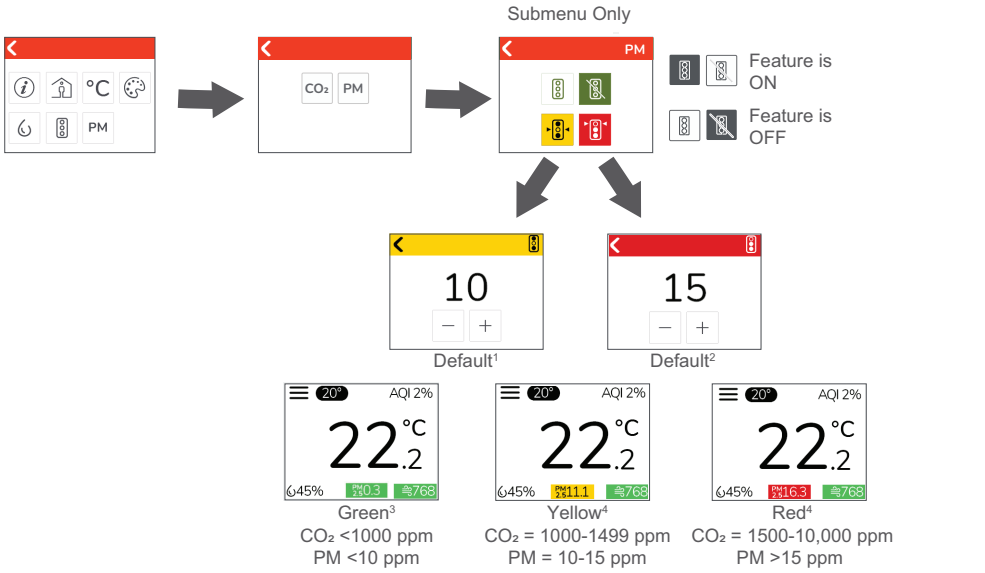
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.

Touchscreen Operation (cont.)

CO₂/PM Stoplight Menu
Click this icon to toggle the Stoplight feature on and off. Scroll down by pressing the downward arrow.

With the Stoplight turned on, the area around the CO₂ and PM values at the bottom of the screen changes color. This provides a visual indicator of the CO₂ and PM levels to the room occupants.

Using the +/- buttons, the thresholds at which the colors change on the main screen are user configurable, as described in the diagram.



1. Values <400 ppm (resp. <4 µg/m³) will be rounded up to the minimum limit of 400 ppm (resp. 4 µg/m³).
2. Values >10,000 ppm (resp. > 100 µg/m³) will be rounded up to the maximum limit of 10,000 ppm (resp. 100 µg/m³).
3. Possible to adjust PM and CO₂ thresholds by changing the yellow and red limits.
4. User configurable in increments using the +/- buttons. With a long press of these buttons, the number will change more quickly.

China RoHS Compliance Information

Environment-Friendly Use Period (EFUP) Table

部件名称	有害物质 - Hazardous Substances					
Part Name	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电子件 Electronic	X	O	O	O	O	O

本表格依据SJ/T11364的规定编制。
O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。
X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。
（企业可在此处，根据实际情况对上表中打 × 的技术原因进行进一步说明。）

This table is made according to SJ/T 11364.
O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.
X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572

Z000057-0B

 ©2024 Veris Industries USA 800.354.8556 or +1.503.598.4564 / support@veris.com 0824
Alta Labs, Enercept, Enspector, Hawkeye, Trustat, Aerospond, Veris, and the Veris 'V' logo are trademarks or registered trademarks of Veris Industries, L.L.C. in the USA and/or other countries.
Other companies' trademarks are hereby acknowledged to belong to their respective owners.