



Features & Options

- Available with a CO₂ Equivalent Output (CO₂e) or a Total VOC Output (TVOC)
- Ventilated BAPI-Box for Rough Service Areas and BAPI-Box with Aspiration Tube for Ducts
- Field-Selectable 0 to 5 or 0 to 10 VDC Output

The quality of the air that we breathe is essential to our health and knowing the air quality level is the first step to improving it. BAPI's VOC sensors provide that critical air quality information.

The CO₂ equivalent (CO₂e) units combine the benefits of VOC sensors and the common application of CO₂ sensors into one unit. It provides a VOC reading that correlates to a typical indoor CO₂ level of 0 to 2,000 ppm. This allows the sensor's output to be used for ASHRAE's CO₂-based VRP ventilation schedule.

The total VOC (TVOC) units provide a VOC reading that is the total concentration of all VOCs present in the space within a range of 0 to 2,500 ppb. This is often needed to meet 3rd party building certifications that require separate CO₂ and VOC readings.

Additional information on VOCs and using the CO₂e units in your ventilation strategy is available on our website and in the Air Quality section of our catalog.

The Duct unit uses an aspiration tube, while the Rough Service unit uses a ventilated BAPI-Box and is ideal for areas such as outdoor air plenums, equipment rooms, green houses and warehouses.



Duct CO₂e Unit

(includes cover LEDs for air quality levels of "Good", "Fair" and "Poor".)



Rough Service TVOC Unit

(cover LEDs not available for TVOC units.)

Specifications

Power: (Half-wave rectified)

12 to 24 VDC, 35 mA max
18 to 24 VAC, 4 VAmx

CO₂e Unit Detection Range:

0 to 2,000 ppm CO₂ equivalent

TVOC Unit Detection Range:

0 to 2,500 ppb

Sensing Element:

Micro-machined metal oxide

Start-Up Time:

15 minutes

Response Time:

<60 sec (after start-up time)

Selectable Output:

0 to 5 or 0 to 10 VDC > 10KΩ impedance

Wiring:

3 wires, 16 to 22 AWG

Cover LEDs for CO₂e Models

(not available on TVOC Models):

Good, Green < 1,000 PPM
Fair, Yellow = 1,000 to 1,500 PPM
Poor, Red > 1,500 PPM

Operating Environment:

32 to 122°F (0 to 50°C)
5 to 95%RH non-condensing

Enclosure Material:

UV-Resistant Polycarbonate, UL94, V-0

Agency:

CE EN 61326-1:2013 EMC, UL, RoHS





VOC Duct and Rough Service Sensor

Ordering Grids without List Prices are available on our website at www.bapihvac.com

Ordering Information:

Units with CO2 Equivalent (CO2e) Output

Part #	Description	List Price
BA/VOC05-D-BB	Duct VOC (CO2e), 0 to 5V Output	\$487
BA/VOC10-D-BB	Duct VOC (CO2e), 0 to 10V Output	\$487
BA/VOC05-V-BB	Rough Service VOC (CO2e), 0 to 5V Output	\$555
BA/VOC10-V-BB	Rough Service VOC (CO2e), 0 to 10V Output	\$555

Units with Total VOC (TVOC) Output

Part #	Description	List Price
BA/TVOC05-D-BB-BNK	Duct VOC (TVOC), 0 to 5V Output	\$487
BA/TVOC10-D-BB-BNK	Duct VOC (TVOC), 0 to 10V Output	\$487
BA/TVOC05-V-BB-BNK	Rough Service VOC (TVOC), 0 to 5V Output	\$555
BA/TVOC10-V-BB-BNK	Rough Service VOC (TVOC), 0 to 10V Output	\$555

Dimensions

