



## Features & Options

- Available with a CO<sub>2</sub> Equivalent Output (CO<sub>2</sub>e) 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 CO<sub>2</sub> equivalent (CO<sub>2</sub>e) units combine the benefits of VOC sensors and the common application of CO<sub>2</sub> sensors into one unit. It provides a VOC reading that correlates to a typical indoor CO<sub>2</sub> level of 0 to 2,000 ppm. This allows the sensor's output to be used for ASHRAE's CO<sub>2</sub>-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 CO<sub>2</sub> and VOC readings.

Additional information on VOCs and using the CO<sub>2</sub>e 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 CO<sub>2</sub>e 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

### CO<sub>2</sub>e Unit Detection Range:

0 to 2,000 ppm CO<sub>2</sub> 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 CO<sub>2</sub>e 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





### Ordering Information:

#### Units with CO2 Equivalent (CO2e) Output

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

#### Units with Total VOC (TVOC) Output

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

### Dimensions

