



Rev. 09/21/21

Features & Options

- Field Selectable Particulate Size of PM1.0, PM2.5 and PM10
- Field Selectable Outputs of 0 to 5V, 0 to 10V and 4 to 20mA
- Laser-based, light scattering particle sensing with 10 year expected lifetime.

The BAPI-Box Duct Particulate Sensor is an accurate and reliable way of continuously monitoring the concentration of particles in a duct. The duct unit samples duct air using an aspiration tube.

Laser-based sensors provide the highest accuracy for commercial applications and will measure particle concentrations from 0 to 1,000 $\mu\text{g}/\text{m}^3$.



Duct Particulate Sensor



ORDERING INFORMATION

BA/PM-D-BB... Particulate Sensor, Duct

Specifications

Power: (Half-wave rectified)
 7 to 40 VDC (4 to 20mA Output)
 7 to 40 VDC or 12 to 28 VAC (0 to 5 VDC Output)
 15 to 40 VDC or 15 to 28 VAC (0 to 10 VDC Output)

Power Consumption:
 75 mA Max @ 24 VDC • 3 VA Max @ 24 VAC

Load Resistance: VDC Output 4K Ohms Min

Sensing Element: Laser-based, Light Scattering

Sensor Element Life: 10 Years Typical

Concentration Range: 0 to 1,000 $\mu\text{g}/\text{m}^3$

Accuracy at 77°F ±9°F (25°C ±5°C):

	0 to 100 $\mu\text{g}/\text{m}^3$	100 to 1,000 $\mu\text{g}/\text{m}^3$
PM1.0	±25 $\mu\text{g}/\text{m}^3$	±25% of reading
PM2.5	±15 $\mu\text{g}/\text{m}^3$	±15% of reading
PM10	±25 $\mu\text{g}/\text{m}^3$	±25% of reading

Response Time: <6 Seconds

Wiring: 3 Wires, 16 to 22 AWG

Environmental Operating Range:

-4 to 158°F (-20 to 70°C)

0 to 95%RH Non-condensing

Enclosure Material:

UV-resistant Polycarbonate, UL94 V-0

Agency: CE EN 61326-1:2013 EMC, UL94 V-0, RoHS

