

(FBXDTHCO2)

Monitor to measure
Dust PM2.5
CO₂ carbon dioxide
Temperature
Humidity





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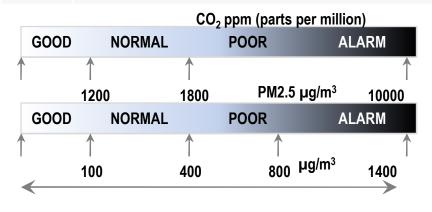
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Specifications

Model: FBXDTHCO2

Parameters CO ₂ sensor element	Specifications NDIR
CO ₂ sensor range	200-10000 ppm
CO ₂ sensor accuracy	± 50 ppm + 5% reading value
Sensor Element	Polymer Humidity Capacitor
PM2.5 sensor element	Optical
PM2.5 sensor range	40 – 1400 μg/m ³
Temperature and humidity range	Humidity $(0 - to - 100 \% rH)$ Temperature $0^{\circ}C - to - +50^{\circ}C$
Accuracy	Humidity (±2%rH), max ±2%rH Temperature ± 0.5 °C
Resolution (Sensitivity)	Humidity ±0.1%rH
	Temperature 0.1 °C
Repeatability	Humidity ±1 %rH
	Temperature 0.2 °C
Humidity Hysteresis	±0.3 % rH
Long term stability	±0.5 %Rh

Air Quality Index	Recommended actions
Good	Breathing air quality is healthy
Normal	Air purifier is preferable. Might cause breathing troubles (like coughing, sneezing) if exposed for a prolonged duration
Poor	Not good for health. Will cause health hazard if continuously exposed under these breathing conditions
ALARM	Smoky air, not fit to breathe even for more than 10-15 minutes. Recommend to turn off the monitor in such cases



Good / fresh / clean air

Poor air

245mm 245mm 30mm 30mm The sensing and a sensing unit unit sensing unit sensitive sensitive

The dust monitor unit can be kept on a table or hang to wall (mounted on 2 screws). Make

How to operate

- Connect the CO₂ monitor to 12VDC adapter
- Wait for around 90 seconds, before the readings start showing up
- "Air Sense" shows up on boot up screen. Ignore initial few readings. It will take 3-4 readings for the averaging algorithm to start
- Dust + CO₂ Monitor monitors (FBXDTHCO2) can be kept on a table or mounted on the wall

The sensors are located at various different locations on the machine. The display shows the present value of $\rm CO_2(carbon\ dioxide)$, temperature and humidity. Followed by PM2.5 dust density and average clean air %.

The monitor is capable of checking CO_2 from $200-10{,}000$ ppm and PM2.5 from $40-1400~\mu g/m^3$. On the left bottom corner of the display show s the AQI (Air Quality Index) bar. The CO_2 values are categorized as GOOD, NORMAL, POOR and ALARM.



CO₂ less than 600 ppm PM2.5 less than 100 µg/m³



CO₂ 600 - 1200 ppm

PM2.5 less than $100 - 400 \mu g/m^3$



CO₂ Value 1200 – 1800 ppm

 $PM2.5~4~400-800~\mu g/m^3$

Air Quality Index

CO₂ Value exceeding 1800 ppm PM2.5 exceeding 800 µg/m³

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Corresponding value of air quality index to the displayed for CO₂ readings

