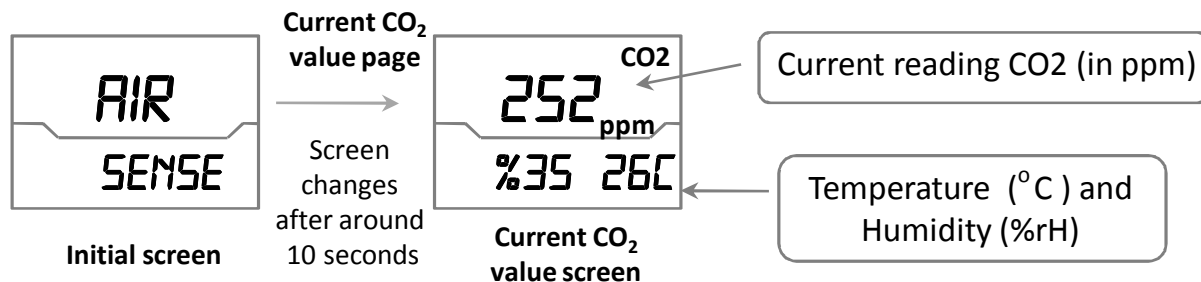


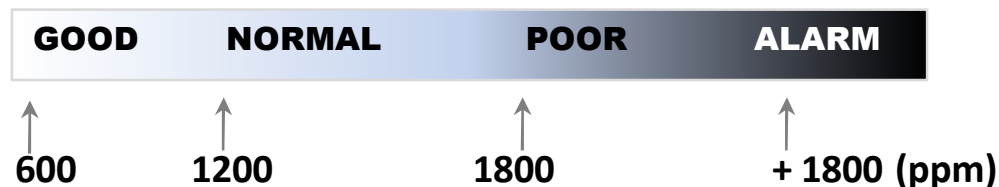
Monitor: CO₂ + Temperature + Humidity



Model: **FBXTHCO2G**



Air Quality Index CO₂



Parameters	Specifications	
CO ₂ sensor element	NDIR	
CO ₂ sensor range	0-2000 ppm	
CO ₂ sensor accuracy	± 50 ppm + 5% reading value	
Sensor Element	Polymer Humidity Capacitor	
Operating range	Humidity (0-100%rH)	Temperature 0°C -70°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
NORMAL
POOR
ALARM

Displayed in bottom left corner of the screen

Visit us at: www.forbixindia.com
Call: +91 97421 59846 / +91 9845100274
Email: sales@forbixindia.com

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CO₂ + Temperature + Humidity Monitor – Frequently asked questions (FAQ)

Frequently Asked Questions:

• *What is the difference between FBXTHCO2W and FBXTHCO2G models?*

Both the models are functionally the same. The background light of the LCD screen is bluish-white in FBXTHCO2W model and lemon-green in the FBXTHCO2G model

• *Can the machine be hand operated or on battery?*

The monitor operates on 12VDC power supply. We provide 220VDC to 12VDC converter adapter along with the package. User can use a 12V battery pack as well. The life of the battery would depend on the battery capacity. On an average, 4-6AH/12VDC rechargeable lead acid battery may last for 6-8 hrs. with LCD light on.

• *How do I use the machine?*

The best way to use the dust monitor is to keep it on a table or mantelpiece. Power on the machine and allow a settling time of around 5 minutes. Ignore the 1st few readings, till the monitor stabilizes. After that the CO₂ readings with start appearing on the display (every 30 seconds). Make sure not to disturb the orientation of the meter. Keeping it vertical on a table is the best way to handle it. Shaking the sensor or the monitor too often will disturb the readings

• *How do I infer from the readings?*

The monitor displays the CO₂ in ppm (part s per million). Below 600 ppm is assumed good, between 600 – 1500 ppm the CO₂ is still under breathing conditions, but it needs outdoor fresh air for better circulation. Above 1500 ppm breathing air is rendered stale. The bar on the left side displays the quality of air. All 3 bars active means good quality of breathing air.

• *What are the values that can I expect to see in my room?*

Usually CO₂ in a room should be within 200-800 ppm. If the meter is showing values higher than this, it is recommended to open doors and windows to allow fresh air to circulate in, till the CO₂ concentration is reduced

• *Where is CO₂ the sensor located in the monitor?*

The CO₂ sensor is located towards the top of the monitor unit. The open slot area allows environmental CO₂ to enter the sensor thereby, calculating the concentration

• *Can the unit be used for outdoors as well?*

The unit enclosure is designed for indoors. Though the machine can still be used outdoor with proper sheds and covering to avoid from direct heat/sunlight/rain etc. Ensure the sensor area is open for the environment

• *I noticed the numbers are jumping, why so?*

The monitor checks for particles suspended in the air. The random motion of CO₂ particles makes the sensor show values differently. It is not possible for CO₂ particle density be absolutely constant in a room. The variations ideally should be within 200 ppm for a closed room with fans or air blowers switched off

• *What are the precautionary measures and maintenance needed by the dust monitor?*

The CO₂ monitor is designed to show indoor air particulate matter only. When subjected to rooms full of smoke, where the reading says ALARM, the monitor should be turned off.

Ordinarily, carbon dioxide is *not* poisonous. It diffuses from your cells into your bloodstream and from there out via your lungs, yet it is always present throughout your body.

• *Is carbon dioxide bad for health*

As such CO₂ not toxic and non-poisonous gas in nature for human beings. But inhaling CO₂ for prolonged periods of time may lead to Carbon dioxide intoxication and effects of rising CO₂ concentration in your blood and tissues may lead to nausea, headache and vomiting

CO₂ Monitor

Visit us at: www.forbixindia.com

Call: +91 80 6452 1122

Email: sales@forbixindia.com