

VOC air quality monitor data logger Technical specification



VOC monitor for (Formaldehyde / Benzene / Toluene and TVOC)

Features:

- VOC gas measuring range: 0.000 to 5.000 ppm
- Accuracy: $\pm 5\%$
- Resolution: ≤ 0.1 ppm
- Long term stability: ± 0.5 %rH
- Operating temperature: 0°C to $+50^{\circ}\text{C}$
- Operating humidity: 0 to 100 %rH (relative humidity)
- Following is the relative sensitivity for various different vapors
 - LPG / CNC, highly sensitive
 - Formaldehyde (HCHO), highly sensitive
 - Benzene, Toluene, moderately sensitive
 - Gasoline and petroleum products, highly sensitive

Air Quality values

Description

GOOD

value < 0.10 ppm

Breathing air quality is healthy

NORMAL

0.10 ppm $<$ value $<$ 0.50 ppm

Air purifier is preferable; might cause breathing troubles like coughing, sneezing if exposed for a prolonged duration

POOR

0.50 ppm $<$ value $<$ 1.50 ppm

Not good for health. Will cause health hazard if continuously exposed under these breathing conditions

ALARM

1.50 ppm $>$ 5.00 ppm

to breathe even for more than 10-15 minutes. Recommend to turn off the monitor in such cases

• 4 for air quality index (GOOD/NORMAL/POOR/ALARM), indicated by corresponding background screen colors, (viz. GREEN / YELLOW / MAGENTA / RED)

• ALARM sound when readings are very high in alarm condition

• Operating voltage: 12 volt DC (FBXYF3T monitor comes with an adapter 110-220VAC to 12VDC)

• The gas needs to reach the sensing *point* (through the air inlet cavity holes) , for the machine to detect the VOC concentration

When not in use, keep the machine in turn OFF position

• Do not expose the unit to high concentration of VOC for prolonged duration. If the measurement reaches ALARM condition, then it is recommended to turn off the unit after noting the readings and place this apparatus at a relatively clean location

• For accurate readings, avoid exposing the device to polluted environments that are over 1.000ppm for a duration over 2-3 minutes.

• Recalibration time nearly 4000 working hours.

Any query Contact :

Singh Enterprises469@gmail.com

Faridabd,Haryana121001

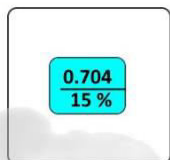
E-Mail- singhenterprises469@gmail.com

Website – www.rhscientifics.com

Phone- 9319134775,8448331034



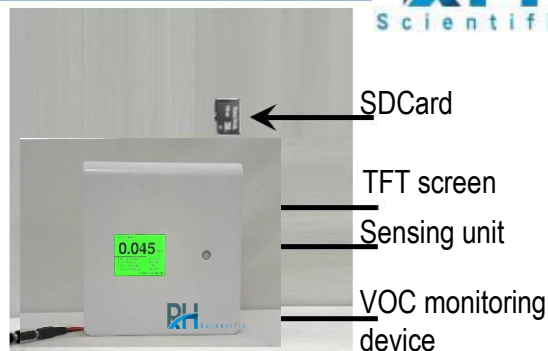
• Apparatus is designed for indoor use only



VOC
Formaldehyde (CH₂O)
Benzene (C₆H₆)
Toluene (C₇H₈)
Xylene (C₈H₁₀)
Styrene (C₈H₈)
Hydrocarbons



24x7 data logger on SDCard.
Data can be downloaded via:
- Online (by logging into WiFi hotspot)
- Offline (directly reading the SDCard)



VOC air quality monitor data logger console

Dimensions:

Device size: 180 x 180 x 25 mm

Weight: 250-280 gms

Monitors: almost all VOCs and hydrocarbons, Formaldehyde, Benzene, Toluene, Xylene, Styrene, Acetone etc.

Step to download files:

- Connect to WiFi network:
FBX_DATALOGGER
- Password: request from the sales team at the time of purchase
- On the web browser type <http://192.168.1.1> on the url
- Once connected to the data logger machine, browse to the "log files" link to download the files
(a file for every day would be present, from the time SD card is inserted)

Features:

- Wireless data logger receiver
- 24x7 data logging capability
- Wi-Fi data download
- SD Card data download 2/4/8/16GB information
- New file created on daily basis
- Readings with a variation of more than ± 0.005 ppm is recorded on the SD card

Log file details:

- .txt or .csv log file
- Every day as a new folder to store the logfile
- A new data is stored in the SD-card when the difference from the previous value is ± 0.005
- VOC readings are in range 0.000 ppm to 10.000 ppm
- Log file contains present time, VOC concentration in ppm and percentage of pollution (5.000 ppm reading marks 99%, while 0.000ppm marks 0%)

How to operate:

- To run the apparatus, connect the 12volt adapter power supply to the device and connect the other end of the adapter to 110-220vac socket point
- Wait for initial boot time of 10-30 seconds (boot time varies with firmware versions)
- Ignore the first few readings, because they may stand inaccurate. Consecutive readings can be noticed / recorded. Though the data logging and recording facility starts, immediately after power is turned ON

FOR ANY QUERY CONTACT

Singh Enterprises

e-mail-singhenterprises469@gmail.com

FBXYF3DL: YellowFox3 VOC air quality monitor data logger

Technical specification



GOOD
value < 0.10 ppm

VOC monitor
0.045 ppm
0.00 - 0.10 Good RTC OK
0.10 - 0.50 Fair Log OK
0.50 - 1.50 Poor 4:12
1.20 - 5.00 Alarm 30/6/23
FORBIX SEMICON



NORMAL
0.10 ppm < value < 0.50 ppm

VOC monitor
0.184 ppm
0.00 - 0.10 Good RTC OK
0.10 - 0.50 Fair Log OK
0.50 - 1.50 Poor 5:38
1.20 - 5.00 Alarm 30/6/23
FORBIX SEMICON



POOR
0.50 ppm < value < 1.50 ppm

VOC monitor
0.604 ppm
0.00 - 0.10 Good RTC OK
0.10 - 0.50 Fair Log FAIL
0.50 - 1.50 Poor 5:41
1.20 - 5.00 Alarm 30/6/23
FORBIX SEMICON



ALARM
1.20 ppm > 5.00 ppm

VOC monitor
5.000 ppm
0.00 - 0.10 Good RTC OK
0.10 - 0.50 Fair Log OK
0.50 - 1.50 Poor 5:39
1.20 - 5.00 Alarm 30/6/23
FORBIX SEMICON

Level of VOC gas content range

Contents of VOC Monitor
TFT display interface

FBXYF3DL: YellowFox3 VOC air quality monitor data logger

Technical specification

FORBIX SEMICON

[DATALOGGER v1.0]

System Time: [link](#)

SD Card Info: [link](#)

Log Files: [link](#)

Browser Time: 29/03/19 12:27:50

RTC Time: 29/03/19 27:36

Update RTC Time: [Update](#)

Sd Card: present

Volume type: FAT32

Volume size: 3802Mb

[1-3-19.TXT](#) [115]

[1-1-0.TXT](#) [37]

[14-3-19.TXT](#) [644]

[28-3-19.TXT](#) [2901]

[29-3-19.TXT](#) [2158]

Logged files date

Time

11:0:28 ***** MONITOR REBOOT *****

11:3:3 VOC reading --> 0.109 ppm: Pollution = :2%

11:3:6 VOC reading --> 0.220 ppm: Pollution = :4%

11:3:8 VOC reading --> 0.270 ppm: Pollution = :5%

11:3:10 VOC reading --> 0.205 ppm: Pollution = :4%

11:3:13 VOC reading --> 0.029 ppm: Pollution = :0%

11:3:15 VOC reading --> 0.000 ppm: Pollution = :0%