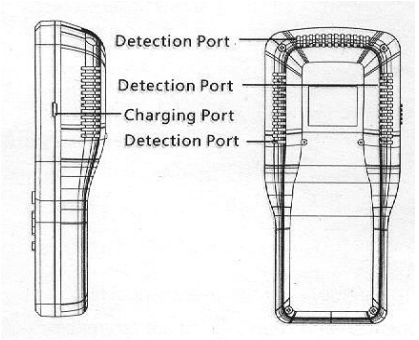
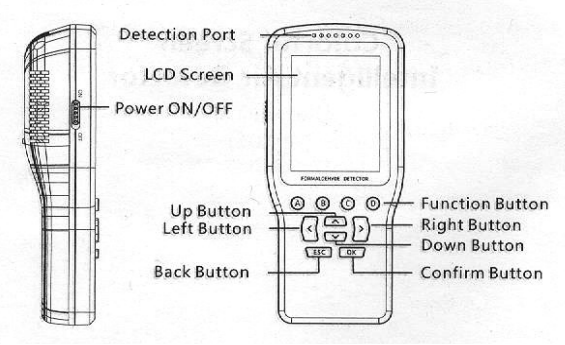
MGC
AIR QUALITY MONITOR INSTRUCTIONS

MGC Air Quality Monitor is designed to help identify the level of contaminates, particles and pollution in the air, both in the home & outside. The monitor measures particles which consist of mould spores, fungi spores, pollen, dust, organic matter & chemicals suspended in the air

Product View

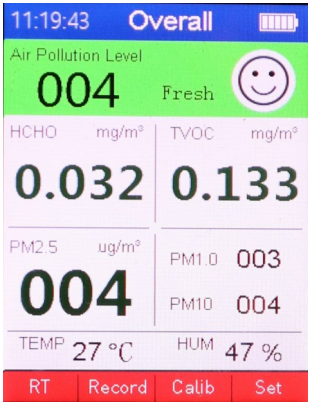




Caution

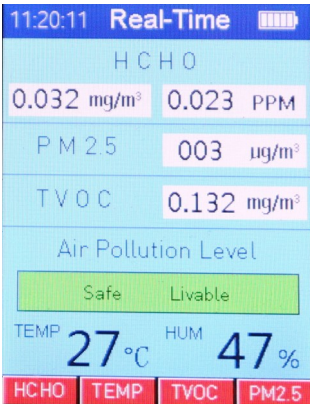
Do not disassemble, damage or place in a fire. If there is severe bulging, of the case please do NOT continue to use. Do not place in a high temperature environment.

When the monitor is switched on for the first time it will automatically carry out a calibration process with on-screen instructions to follow.



Overall Screen (1)

Once the calibration is complete the monitor opens on the Overall screen (Home Screen). The screen shows an overall/averaged reading, it has a coloured band and emoji that provide reassurance to occupants, operatives and contractors regarding the levels of mould spores, fungi spores, pollen, dust, and chemicals in the air quality. The figures on the screen show the PM2.5 - PM10 + PM1 levels along with the HCHO and TVOC levels. In addition, the temperature and humidity levels are also displayed. At the bottom of the screen (in orange) are four function tabs which are operated by buttons A, B, C and D on the monitor.

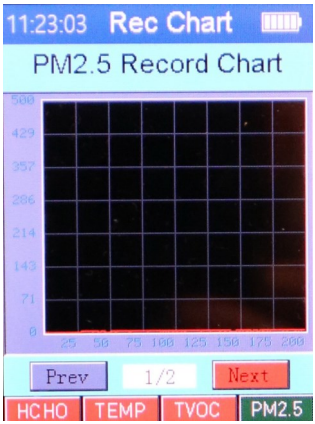


Real Time Screen (2)

The Real Time screen is accessed by pressing button A under the orange tab on the Overall (Home) screen. This screen provides readings as they change, it also shows a coloured band with words indicating the air pollution level. The band and text can again provide reassurance to occupants, operatives and contractors regarding the levels of mould spores, fungi spores, pollen, dust, and chemicals in the air quality. The screen also provides readings for PM2.5, HCHO, TVOC levels along with temperature and humidity. At the bottom of the screen are four orange tabs and by pressing the corresponding button beneath A, B, C and D it produces a chart of the selected item. The chart runs for a default period of 4 minutes 10 seconds. To return to the Home screen at any time press the Esc button on the monitor.

Record Screen (3)

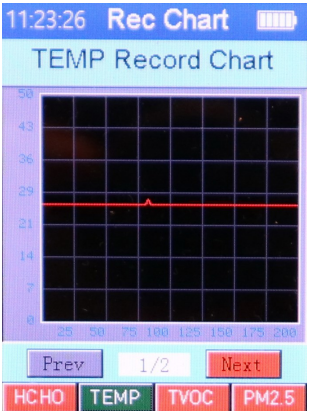
The monitor can record and chart the PM2.5, Temperature, HCHO and TVOC levels from a default setting of 4 minutes 10 seconds up to 16 hours and 40 minutes. From the Overall screen (Home) press button B under the orange tab marked Record. The Record screen also shows the PM 2.5, Temperature, HCHO and TVOC levels along with Recording Gap that allows the time between each measurement to be adjusted in 5 second increments and Recording No which adjusts the number of points in 0.50 point increments. As each of these items are adjusted by pressing the left/right and up/down arrow buttons the time that the recording will take will increase from the default setting.



Record Chart PM2.5 (4)

To view the Record chart once the recording is complete, for PM2.5, press button C and the orange tab marked Chart on the Record screen.

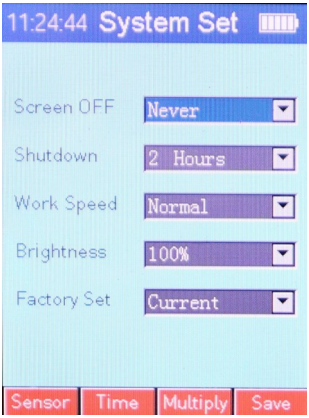
This will take you to the Record chart screen and by selecting the appropriate button A, B, C or D under the respective tab, the monitor will display the timed recording for PM2.5, Temperature, HCHO and TVOC. Depending on the setting chosen on the Record screen and the length of time the recording takes there may be more than one Chart screen for each item. The additional screens can be accessed by pressing the left or right arrows buttons.



Record Temperature Chart (5)

To view the Record Temprature chart once the recording is complete, press button C under the orange tab marked Chart on the Record screen and follow the same procedure as previous (Record Chart PM 2.5 (4)).

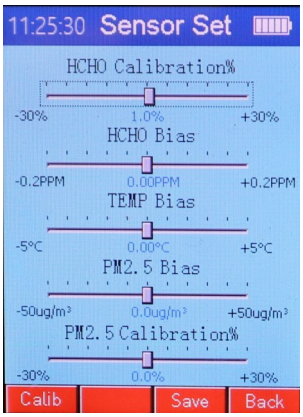
The information on the chart will be held on the monitor until the record function is next used. By pressing escape to go back to the Record screen and then pressing button D under the orange tab marked Detail, the monitor will display the recording start, end time and date along with the recording settings.



System Set (6)

The system setting are accessed by pressing button D under the orange tab marked Set on the overall (Home) screen.

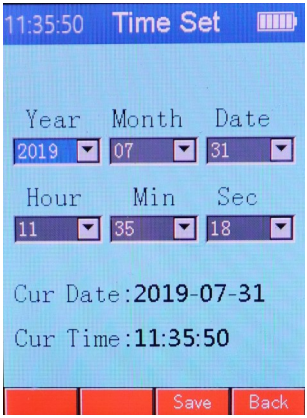
The system Set screen will display the screen off time, the shut down time, the work speed, brightness and factory reset. Each of the functions can be edited by use of the up and down arrow button followed by the OK button then use the up and down arrow button again to select the setting followed again by the OK button to confirm.



Sensor Set (7)

The Sensor set screen is entered by pressing button A under the orange tab marked Sensor on the System Set screen.

The sensor set screen and settings allow for adjustments to the PM2.5 and HCHO calibrations along with PM2.5, temperature and HCHO bias. By adjusting these settings it will affect the readings, therefore, changes to these items should only be carried out by a person with the experience and knowledge to do so.



Time Set Screen (8)

The Time Set screen is also accessed from the System Set screen by pressing button B under the orange tab marked Time. This screen allows the correct time and date to be entered in to the monitor. This is achieved by use of the left and right arrow buttons to choose the item and the up and down arrows to increase/ decrease the number of the time/date.

Multifunction (9)

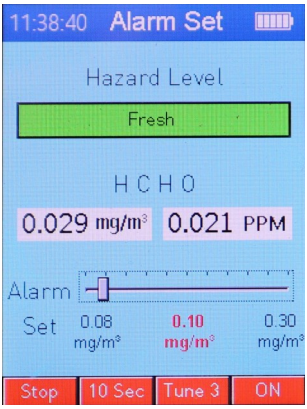
The Multifunction screen which is accessed from System Set-Up by pressing the C button under the orange tab marked Multiply. The screen shows four functions each of which are selected by using the up/down and left/right buttons on the monitor. Once a function has been selected press button A to enter the screen. The four functions available are Haze which calculates the time required to reduce PM2.5 levels, Treat HCHO which calculates the time required to reduce HCHO levels, Calibrate which allows the monitor to be re-calibrated and Alarm which allows the HCHO levels to be adjusted before the alarm is triggered.

Haze Calculator (10)

The Haze calculator screen when selected from Multifunction will allow details such as Room Area, Room Type, PM2.5 values and CADR (clean air delivery rate) to be entered by using the left/right and up/down buttons followed by the OK button to select each item. Once a box in each of the categories has been selected, press Button A under the orange tab marked Calc and the monitor estimates the time required to reduce the Haze PM2.5 levels to a fresh liveable standard.

HCHO Calculation (11)

The HCHO calculator screen when selected from Multifunction will allow details such as Room Area, Room Type, HCHO density and clear mode to be entered by using the left/right and up/down buttons followed by the OK button to select each item. Once a box in each of the categories has been selected, press button A under the orange tab marked Calc and the monitor estimates the time required, the cost in $ and the quantity of material required to reduce the HCHO levels.



Alarm Off (12)

The Alarm Set screen when selected from Multifunction shows the hazard level as a coloured bar (green, orange, red) dependent on the hazard level. The HCHO levels in both mg/m^3 and ppm and the current alarm setting. The orange tabs at the bottom of the screen allow the alarm to be stopped, the duration of the alarm to be increased, a choice of three tones and the option to switch the alarm on or off. The alarm setting levels should only be changed from the default value by an experienced user.

Monitoring the air:

The Air Pollution Level on the Overall screen:

HCHO Range	PM2.5 Range	Colour Bar	Hazard Level	Emoji Icon
<0.061	<35	Green	Fresh	
<0.100	<75	Light Green	Normal	
<0.370	<115	Yellow	Poor	
<0.775	<150	Light Orange	Harmful	
<1.181	<250	Orange	Serious	
≥1.181	≥250	Red	Danger	

The Air Pollution Level on the Real Time screen:

Colour Bar	Hazard Level
Green	Fresh
Light Green	Normal
Yellow	Poor
Light Orange	Harmful
Orange	Serious
Red	Danger

Item	Parameter
HCHO Test Range	0.000 – 1.999 mg/m^3
TVOC Test Range	0.000 – 9.999 mg/m^3
PM1.0/PM2.5/PM10 Range	0 – 999 μg/m^3
Temperature Test Range	0 – 50ºC
Humidity Test Range	20 – 90%RH
Battery Capacity	1500mAh
Input	5.0V/1A
Working Environment	5 – 45ºC, <90% RH
Storage Environment	0 – 50ºC, <90% RH
Product Dimension	150.0*37.4.4mm
Product Weight	170.5g

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