

FumiTest PH3 2000

Quick Start Guide



www.controlequipment.com.au

sales@controlequipment.com.au

Brisbane Office

1/3 Deakin Street
Brendale QLD 4500
Australia
Ph: +61 7 3481 9000

Perth Office

5/30 Enterprise Cres
Malaga WA 6090
Australia
Ph: +61 8 6184 7840

FumiTest Quick Start



Turning the monitor On and Off:

FumiTest has 3 power modes, namely 'power off', 'sleep mode' and 'On'.

When first supplied, and for situations where the unit is not going to be used for long periods of time (such as 6 months or longer), the monitor can be set into power off mode.

- In *power off* mode, the display will be blank. All electronics and the internal gas sensor are inactive.
- To power up the unit from the *power off* state, press and hold the 'Power/Sleep' button until the Status LED flashes **Green**, then release the button. The display will indicate 'SLEEP MODE'.
- In *Sleep Mode*, the unit is powered and sitting in a low power condition. In this mode the internal gas sensor is kept powered and ready for immediate use when the unit is turned on (see below).
- i** Each time the unit is powered on from *power off mode* to *sleep mode*, it is recommended to wait 20 minutes to half an hour to allow the gas sensor to settle – this will ensure the most accurate measurement results.
- To turn the unit to *on mode* to take measurements, press and hold the 'Power/Sleep' button until the Status LED flashes **Blue**, then release the button. The display will show a 5 second countdown as it starts up and initialises ready for use. After 5 seconds, the display will show 0.0 and the unit is ready for use.
- To return the unit to *sleep mode* when measurements are complete, press and hold the 'Power/Sleep' button until the Status LED flashes **Blue**, then release the button. The unit will return to *sleep mode* and the display will indicate 'SLEEP MODE'. If the button is kept pressed for a further 5 seconds after the Status LED flashes **Blue**, the LED will flash **Green** and the unit will go into *power off* mode.
- i** When in *on mode* and the pump is not running, the unit will automatically return to *sleep mode* after 5 minutes. If the pump is running, the unit will remain active and not automatically enter *sleep mode*.

Basic Controls:

Display Backlight:

To toggle the display backlight between on and off, press the backlight button.

Pump On/Off:

To toggle the sample pump between on and off, press the pump button.


Zero Reading:

Over time and under some operating conditions, the internal gas sensor may require to be 're-zeroed'.

Re-Zeroing ensures that FumiTest gives a proper zero reading when not sampling gas.

If FumiTest requires to be re-zeroed, the left hand side of the display will indicate 'ZERO' with a downward pointing arrow.

- To perform a Zero Reading, follow the steps below.

 Zero Reading is carried out with no fumigant being drawn into the unit. The gas inlet and outlet should be left open to atmosphere and **not** be connected to a source of fumigant.

- Turn on the sample pump and allow to run for around 10 seconds.
- Press and hold the 'Zero Reading' button until the status LED illuminates **Cyan**, then release the button.
- The reading will now indicate 0.0 and the 'ZERO' and downward arrow indicators will not be visible.
- Turn off the pump.

Taking Phosphine Measurements:



When taking phosphine measurements, it is the operators' responsibility to follow relevant industry and local site prescribed safety practices.

Specifically, when using the FumiTest monitor, both the inlet and the outlet sample lines must be properly connected to the monitor's inlet and outlet tube fittings using compatible tubing with no leaks.

To make a measurement, follow the steps below.


- Turn FumiTest on.
- Ensure that the display is reading zero and that the 'ZERO' and down arrow indicators are not visible. If the display is not zero and/or the 'ZERO' indicators are visible, perform a re-zeroing operation as described above.
- Connect FumiTest's inlet port to a sample line from which to draw in fumigant.
- Connect Fumitest's outlet port to a return line, either back into the location from where the sample is being taken from or to a designated safe location that is sufficiently far away from other personnel.
- Turn on the sample pump. A 'pump running' indicator will be displayed above the fumigant reading.
- The unit will start taking measurements and the display will start to indicate the fumigant concentration once the sample has been pulled from the source to the monitor. The time that this takes will depend on the length of the sample inlet line.
- Wait for the reading to stabilise and note the reading.
- Per prescribed safety practices, remove the inlet sample line from the monitor and continue to let the sample pump run until the display reads zero. This 'purges' the monitor of fumigant, leaving it in a safe condition.

Warnings and Indications:

During operation, the display shows various indicators if necessary.

Over-range warning:

If the sampled fumigant concentration is greater than the full-scale range of the monitor by 10%, the display will indicate an over-range condition. Once the fumigant concentration falls below this limit, the display will begin to indicate the concentration value once more.

 ***It is not recommended to subject the monitor to fumigant concentrations beyond the full-scale range as this can create a situation where the sensor takes considerable time to return to zero even when no gas is present. Additionally, the life of the gas sensor may be reduced if repeatedly exposed to over-range concentrations.***


Battery Status:

The battery icon indicates the remaining life in the battery before recharging is necessary.

- FumiTest can run for around 20+ hours continuously with the pump running before requiring a re-charge.
- For usage where the monitor is turned on and off and not running continually, it shouldn't be necessary to recharge the battery any more frequently than every few months.
- When the battery indicator is showing its lowest number of segments, there is still at least a few hours of use remaining. However, maintaining a properly charged battery is recommended.

Charging The Battery:

- To recharge the monitor's battery, plug a USB C type cable (type A to C or type C to C) into the charging port of the monitor.
- During charging, the Status LED will illuminate **Red**.
- When charging is complete, there will be no status LED illuminated.
- Charging takes around 6 hours from a completely empty battery.

 ***FumiTest's charging circuitry is designed to safely charge the internal battery when connected to commonly available power sources such as the supplied charger, phone chargers, PC USB ports / USB hubs. Do not connect FumiTest's charge port to power sources other than the above-mentioned types as this may damage the charge port and/or the connected power source.***



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