

## VM3COP43.07 Maxtec Ultramax Analyser Testing

- 1) Unbox the Ultramax analyser.



- 2) Check the box contains all the items listed:

Ultramax analyser  
Operating manual  
Clear tubing  
Soft cover  
Batteries



- 3) Using a #1 Phillips screw driver, remove the battery door and insert two AA batteries. Battery orientation markings can be found on the inside of the battery compartment.



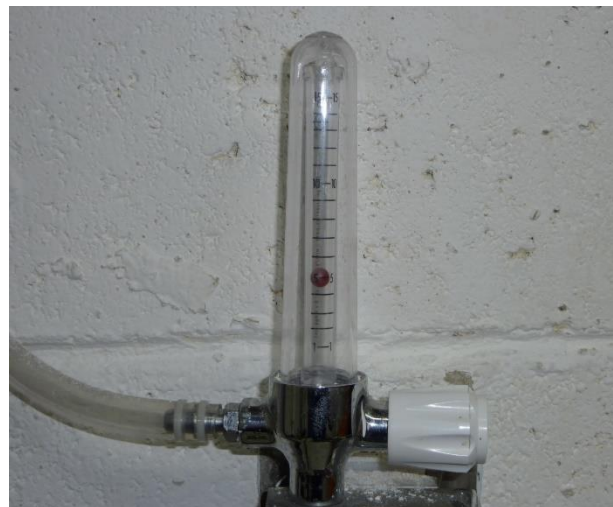
- 4) Activate the analyser by pressing the power button on the front panel.



- 5) Connect one end the tubing to gas inlet port.



- 6) Connect the remaining end of the tubing to gas source with an inline flow meter.



- 7) Test the flow meter by allowing gas to flow at the rate of 2 litres per minute (lpm). Compare the reading on the Ultramax monitor to the reading on the inline flow meter. A reading of  $\pm 0.2$  lpm is acceptable.
- 8) Repeat the process at 5 and 8 lpm.



- 9) Test the PSI gas pressure function.  
Allow gas to flow at 2lpm.
- 10) Cover the gas sample outlet port,  
located on the right-hand side, with  
a finger or thumb.
- 11) Allow 5 seconds before observing a  
pressure reading.



- 12) Set the pressure mode switch kPa.  
This can be found inside the battery  
compartment.



- 13) Test the kPa gas pressure function.  
Allow gas to flow at 2lpm
- 14) Cover the gas sample outlet port,  
located on the right-hand side, with  
a finger or thumb.
- 15) Allow 5 seconds before observing a  
pressure reading.
- 16) Return the mode switch to the PSI  
setting.



- 17) Verify the Oxygen calibration.  
Connect the inlet tubing to a source  
of pure Oxygen ( $\geq 99.95\%$ ). Allow  
gas to flow at 2lpm.
- 18) Press and hold the mode button.  
While holding the mode button, the  
gas measurement should read  
between 98.5 and 101.5%. If the  
gas measurement is not within this  
range, then inform the team leader.
- 19) Record the QA results on the  
intrastats system.

