

# Novatech Controls

## Headspace Atmosphere Test

### Model 1637 O<sub>2</sub> / CO<sub>2</sub> Analyser

- 1) In the analyser's set-up menu, step 31, select "Display Sample" (factory default).
- 2) Allow the analyser to heat the zirconia oxygen sensor to its operating temperature and stabilise (approximately 20 minutes).
- 3) Turn on the pump (if not already on).
- 4)



Place septum on the packet to be tested. Select an area where the hypodermic needle will not make contact with the packaged product when inserted through the septum into the modified atmosphere.

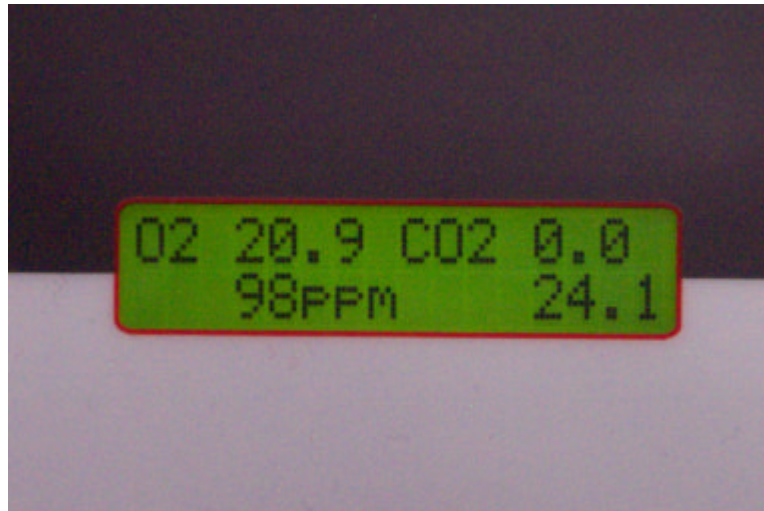
- 5)



Insert the hypodermic into the packet through the septum.

- 6) The pack will slowly collapse as the analyser draws the atmosphere from within. At a flow rate of 0.15 litres per minute the reading takes about 5 to 6 seconds for the oxygen reading and about 10 to 12 seconds for the carbon dioxide.

7)



Withdraw the hypodermic needle from the pack. The analyser will hold the lowest oxygen reading and the highest carbon dioxide reading and display the readings on the lower line. When the analyser passes the reset level (factory default 15% O<sub>2</sub>) it is then ready to measure the next sample.

### **Addendum**

#### **Filter Usage**

If the product has particulate present, such as milk powder, coffee, cheese slices, etc., you must use the white disposable filter. This is a 2-micron filter.



If there is a possibility of fluid entering the sample line, the blue water trap filter **must** be used. The blue filter (0.2-micron) will not allow the fluid / water to enter the sample line and destroy the zirconia oxygen sensor. This filter can be dried and re-used.



If particulate and water are present then both filters should be used. Use the white one first to catch particulate and the blue filter second to trap the water.

