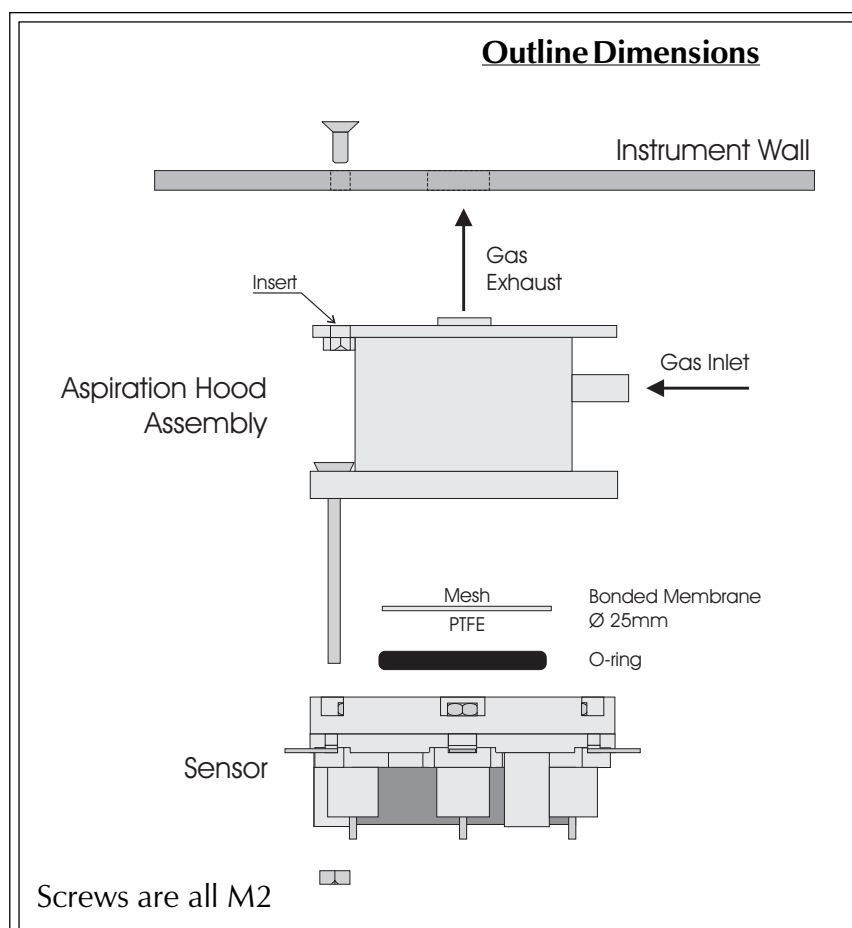




Application Note 9

3 Series Aspiration Fixing



Although CiTiceLs have a very small pressure coefficient, they do give a transient response to changes in pressure which take typically 20-30 seconds to stabilise. When pumps, particularly diaphragm pumps, are used in aspirated systems, pressure oscillations are introduced into the gas stream, giving a false, enhanced signal. This is also flow dependant as the pressure pulses will change with pump speed and flow rate.

City Technology has an aspirated mode assembly to minimise the effect of pumps. The assembly consists of an expansion chamber with a small bleed hole which dampens the flow of gas to the sensor. Flow rates of up to 1 litre/minute can be pumped across the CiTiceL with no increase in signal. A vent in the top of the hood allows the gas to be vented outside the instrument.

Note that to work correctly the gas exhaust must flow freely to air with no back pressure.

Order Code: Aspiration Fixing.....B009