

# **The MSA Altair 4 Gas Monitor.**

**THESE SIMPLIFIED INSTRUCTIONS ARE DESIGNED TO FACILITATE CALIBRATION OF THE GAS MONITOR. THEY DO NOT REPLACE THE CALIBRATION INSTRUCTIONS AS ISSUED BY THE MANUFACTURER, WHICH SHOULD ALWAYS BE READ BEFORE THE INSTRUMENT IS CALIBRATED. THESE INSTRUCTIONS ARE DESIGNED TO PROVIDE AN EASY AND QUICK GUIDE TO COMPLEMENT YOUR UNDERSTANDING OF THE MANUFACTURER'S CALIBRATION MANUAL.**

## **1. Calibration.**

- a. To complete a full sensor calibration the following equipment is required :-
- Enforcer
  - Cylinder of Multimix Gas containing Methane (29% LEL), H<sub>2</sub>S ( 20ppm ) CO ( 60ppm), 15% Vol. O<sub>2</sub> and balance N<sub>2</sub>



Enter into calibration mode by pressing and holding the %~~up~~+arrow button until the display asks for a zero operation to be completed..



- b. The unit will ask if you require a fresh air zero and you should confirm by pressing the on / off button to confirm.
- c. The unit will then automatically switch to span calibration and this is the signal to attach the gas to the instrument.
- d. Firstly, screw the regulator with MSA tube and adaptor already connected into the multi-mix cylinder of gas

Gas Cylinder with  
regulator in



- e. Check that the cylinder has gas inside by looking at the gauge on the regulator.
- f. Check that the label on the gas canister matches the concentration of gas which the instrument requires
- g. Attach the aspirator / calibration adaptor to the MSA Altair 4.
- h. The flow of gas is detected automatically and the calibration takes place automatically.



- i. When it has finished the calibration the MSA Altair 4 display will confirm correct calibration.
- j. If a fail message is displayed please contact IM&M Ltd for further assistance.
- k. A note should be made in the vessel log of the date and time of calibration.