The MSA Altair 4 Gas Monitor.

THESE SIMPLIFIED INSTRUCTIONS ARE DESIGNED TO FACILITATE USE AND OPERATION OF THE GAS MONITOR. THEY <u>DO NOT</u> REPLACE THE USER INSTRUCTIONS AS ISSUED BY THE MANUFACTURER, WHICH SHOULD ALWAYS BE READ BEFORE THE INSTRUMENT IS USED. THESE INSTRUCTIONS ARE DESIGNED TO PROVIDE AN EASY AND QUICK GUIDE TO COMPLIMENT YOUR UNDERSTANDING OF THE MANUFACTURER'S USER MANUAL.

1. <u>Switching on.</u>

    a. The instrument is switched on by pressing the on/off button, which is the centre button as shown, for approx. 5 seconds. If the battery has charge the unit will %bleep+and %flash+to let you know that it has been activated.

    b. The unit then enters a series of automatic self-checks that will take approx. 60 seconds to complete. During this time you are shown various different instrument parameters, units, alarms, last calibration and due calibration and a fresh sensors %FAS?+ is asked.
    c. By pressing the centre, on/ off, switch once, quite hard, at this time the unit will complete a zero of all the sensors and the message pass or fail will appear.
    d. If a %pass+message is seen then the instrument is ready to use.
    e. If a %fail+message is seen the unit should be recalibrated.
    f. During normal use the unit will %bleep+every 30 seconds to let you know that the unit is working correctly.

2. General Operation.

a. IF WHILST IN A CONFINED SPACE OR A POTENTIALLY DANGEROUS AREA, THE UNIT MAKES ANY OTHER NOISE OTHER THAN THE 30 SECOND CONFIDENCE BLEEP THEN EVACUATION MUST TAKE PLACE IMMEDIATELY.

b. After switching on the unit displays the concentrations of the gases which are installed in the instrument. The unit will go into alarm if any or all of the gas concentration exceeds those limits set in the instrument. The limits are factory set as those which are internationally recognised as being the safe evacuation point. [the limits and thus the alarm points can be changed by software if required.]

c. If at any time the %down+ key is pressed then the instrument will display additional screens. Reference should be made to the MSA user manual, via CD Rom, for the usage of the different screens.

d. Whichever screen is displayed the unit will still function as a gas monitor and if an alarm condition is reached the display will automatically revert back to the measurement screen thus immediately showing the gas(es) in alarm.

e. These alternative screens give information relating to :-

- Bump test of the instrument
- Instrument status and information.
- Time and Date.
- Configuration of the sensors installed.
- Time weighted average for toxic gases.

- Short-term exposure for toxic gases.
- Peaks and troughs for all gases measured.
- Motion sensor activation.

f.   You can easily return to the measurement screen from whichever screen is on the display. Press the on/off button once and the measurement screen will return to the display.

g.   The "up" button is used for navigation and selection only.

h.   If a sample of gas is required to be measured before entry into a confined space or potentially dangerous atmosphere can take place, the unit is supplied with a manual aspirator.

i.   The aspirator should be connected tightly over the sensor grille using the two locator lugs on the aspirator plate to secure.

Aspirator Tubing

Aspirator / Calibration plate covering sensor grille

Hand pump bulb

j.   A sample of the confined space air can then be drawn up to the MSA Altair 4 Gas Monitor by squeezing and releasing the aspirator pump bulb. Usually approx. 15 to 20 hand pumps are required to deliver a good sample through the standard 3m tubing. If an extension is fitted then more hand pumps will be required.

k.   If a successful charging connection is made the instrument will display a charging icon on the instrument display

l.   The unit can be left in the charger indefinitely. This does not damage the batteries in any way and ensures that the unit is always fully charged when use is required.

3. **Switching off.**

a.   The MSA Altair 4 is switched off by pressing the "on / off" button for approx. 5 seconds.

b.   When switched off the unit will stop the 30-second confidence "bleep" and the display will be switched off.