

# S.O.P Monthly Calibration Procedure:

## MSA Altair 4X and 4XR hand held gas detector calibration equipment.

### Calibration Supplies

- ❖ Calibration Check Gas Cylinder
- ❖ 0.25 liters/min. Flow Regulator
- ❖ 1/8" ID Superthane Ester Tubing
- ❖ ALTAIR 4X Calibration Cap.

### Zero Calibration

- (1) Press and hold the **[up arrow]** button in Normal Operation mode for three seconds
- (2) With the instrument exposed to fresh air, press the **[power]** button to confirm the ZERO screen.

 The hourglass will flash during the 10-second sensor zero adjustment.

- After ZERO calibration completes, the instrument, momentarily displays “ZERO PASS” or “ZERO ERR” along with the flag of any sensor that failed.

### Span Calibration

- (3) Once the zero is set.
  - (4) Connect the appropriate calibration gas to the instrument.
  - (5) Attach the calibration cap to the instrument.
    - ✓ Insert tab on calibration cap into slot on instrument.
    - ✓ Press calibration cap until it seats onto instrument.
    - ✓ Press both side tabs down onto instrument until they snap into place.
    - ✓ Ensure that the calibration cap properly seated in place.
    - ✓ Connect one end of the tubing to the calibration cap.
    - ✓ Connect other end of tubing to the cylinder regulator (supplied in the calibration kit).
  - (6) Open the valve on the regulator.
  - (7) Press the **[power]** button to calibrate (span) the instrument.
    - LEDs flash
    - SPAN calibration starts.
- After the SPAN calibration completes, the instrument momentarily displays “SPAN PASS” or “SPAN ERR” along with the label of any sensor that failed then returns to the Measuring mode.