

# MSA ALTAIR® 5X MultiGas Detector

## Pre-Use Instructions



### Turning ON

- Turn the instrument ON by depressing the middle button.
- The instrument performs self tests. During the self test, the instrument checks alarm LEDs, audible alarm, vibrating alarm, and installed sensors.
- The instrument displays:
  - o Startup logo
  - o Software version, instrument serial number
- An alarm (visual, audible, and vibrating) is triggered and you are prompted to block the pumps/sampling system of the instrument within 30 seconds.
  - o When the instrument detects a pump flow block, it displays a **"PASS"** message. The startup sequence resumes.
  - o If the instrument does not detect a pump flow block, it displays an error message. The instrument shuts OFF after the customer acknowledges this message by pressing the ▲ button. If this occurs, check your sampling system and contact MSA as needed.
  - o Users can check the operation of the sampling system anytime during operation by blocking the sampling system to generate a pump alarm.
- The instrument continues to display:
  - o Combustible gas type, and installed sensor indication
  - o Combustible gas type and sensor units (monochrome display only)
  - o Low Alarm setpoints
  - o High Alarm setpoints
  - o STEL Alarm setpoints (if enabled)
  - o TWA Alarm setpoints (if enabled)
  - o Calibration cylinder settings
  - o Current date
  - o Last calibration date (if enabled)
- Sensor begins warm-up
- Once warm-up is complete, unit can be placed in the calibration docking station: turn it upside down and face the screen to the back of the station, inlet pump fits over small tubing attached at bottom of docking station. Close the door.
- Docking station is set to bump test and it will automatically calibrate if the unit fails the bump test. Green light will show if the unit passes bump (or calibration), red light will indicate if it fails. **Do not use unit if it fails calibration!**



Note: The presence of a ♥ indicator on the display means a sensor is approaching or has reached its end-of-life.

|                  | Oxygen (O <sub>2</sub> ) | Combustible (LEL) | Hydrogen Sulfide (H <sub>2</sub> S)          | Carbon Monoxide (CO)               | Ammonia (NH <sub>3</sub> ) |
|------------------|--------------------------|-------------------|----------------------------------------------|------------------------------------|----------------------------|
| Alarm set points | <19.5%<br>>20.8%         | 10%<br>20%        | 10ppm<br>15ppm                               | 25ppm<br>100ppm                    | 25ppm<br>50ppm             |
| Exposure limit   | NA                       | NA                | 20ppm (ceiling limit)<br>50ppm (10 min peak) | 35ppm (8-hour)<br>200ppm (ceiling) | 50ppm (8-hour)             |
| IDLH             | NA                       | NA                | 100ppm                                       | 1200ppm                            | 300ppm                     |