

# ALTAIR® Pro Single-Gas Detector



**THADHANI®**  
The Experts in Safety... Since 1947



*Because every life has a **purpose...***

The ALTAIR Pro Single-Gas Detector has a wide range of features, including simple intuitive operation, small rugged design and dependable technology.

Innovative toxic gas and oxygen detectors are based upon ALTAIR Single-Gas Detector design, but with added features and functionality.

- Tough rubberized housing
- One-button operation
- Accurately measures gas concentration or percent oxygen
- Displays information on a large, clear, backlit LCD.
- Superior dust and water protection (rated IP67 except for O2-R)
- Event-logging and data-logging
- Excellent impact resistance
- Versions available for CO, H<sub>2</sub>S, O<sub>2</sub>, NH<sub>3</sub>, Cl<sub>2</sub>, ClO<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>, HCN, and PH<sub>3</sub>
- Great RFI performance
- Adjustable alarm set points are offered for LOW, HIGH, TWA, and STEL
- Alarms are indicated by flashing LEDs, audible alarm and internal vibrating alarm
- Replaceable battery and sensor

ALTAIR Pro Single-Gas Detectors provide worry-free performance, standing up to the roughest handling in tough industrial environments. Easily replaced sensors and battery keep detectors performing for years. ALTAIR Pro Single-Gas Detector's unique design and competitive price makes it the clear choice when selecting a single-gas detection instrument. It is accurate, reliable, durable, easy to use, easy to maintain, and packed with features.

## **Ease of use**

The ALTAIR Pro Single-Gas Detector combines user flexibility and functional simplicity. True single-button operation provides users with a clear path to any function. With a single button, users can:

- Turn the unit on.
- Activate the backlight.
- Activate the infrared link for computer communication.
- Display software version and alarm settings.
- Perform fresh air setup (FAS).
- Initiate a bump test.
- Change calibration gas concentration.
- Initiate calibration.
- Reset peak reading display.
- Manually change LOW, HIGH, TWA, STEL alarm set points (in protected SETUP mode only).
- Turn the unit off.

## **Packed with features**

- Built-in gas delivery adapter; no accessories are needed for gas response tests.
- Distinctive triple alarm system leaves no doubt for users in alarm situations.
- Piercing audio alarm averages 95 dB @ 1 foot and is distinctive from other workplace sounds..
- Extended frequency range covers a wide sound spectrum.
- Visual alarm features dual LED displays located on the unit's top, visible from all angles.
- Internal vibrating alarm is standard, emitting a pulse that directly calls additional attention when in alarm mode.



### **Easily Replaceable, Commercially Available Battery**

The detector runs on a single, simple-to-install CR2 camera battery. Installed battery life is approximately 9,000 hrs (> 1 year). No long wake-up period; each time units are activated, small amounts of power are supplied to sensors even when units are powered off.

### **Remote Oxygen Detector (O2-R)**

Remote oxygen version attaches remotely to the end of a 10-foot cable, rather than inside instrument housing. Users lower sensor into remote locations and monitor O<sub>2</sub> levels from 10 feet away.

### **Sensors**

ALTAIR Pro Single-Gas Detectors use fast-responding 20 Series oxygen and toxic sensors, meeting UL, cUL, ATEX, and Australian standards. Sensors simply plug into internal circuit board for fast, easy replacement.

### **Built-In IR Communication (Event & Data Logging)**

Data logging is standard; unit automatically records 50 latest events in the session log, while simultaneously recording peak gas readings or low O<sub>2</sub> readings every three minutes in a periodic data log. Combined, these tools provide a great way to assess alarm conditions, confirm bump tests or calibration and verify employee gas concentration exposures. To access data, simply link the unit to your MSA infrared adapter using standard built-in IR communication. MSA FiveStar® Link™ Software lets you view various logs, adjust alarm set points, assign specific names to units, and disable or activate particular features and options.

### **Rugged Design**

Thick rubberized housing withstands accidental drops or other impacts and provides additional water ingress resistance. Metal screw inserts offer stability over the unit's lifetime. Durable suspension clip completes this tough outer shell.

### **Water and Dust Resistance**

ALTAIR Pro Single-Gas Detectors are highly water- and dust-resistant; sealed units exceed industry average IP rating.

### **Test and Calibration Stations**

MSA offers the ALTAIR GALAXY® GX2 Automated Test System for complete automatic calibration and record-keeping of your ALTAIR Pro Single-Gas Detectors. MSA's ALTAIR QuickCheck® Station is an easy and cost-effective way to perform daily alarm and gas response tests on your ALTAIR Pro Single-Gas Detectors. The station is available in manual and automatic versions and quickly verifies that instruments are ready for the upcoming day's use.



# ALTAIR Pro Single-Gas Detector Specifications

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| WEIGHT                           | 4.0 oz including clip                                                        |
| DIMENSIONS                       | 3.4" x 2.0" x 1.0"                                                           |
| OPERATING T RANGE                | -20°C to +50°C (-4 to +122°F)                                                |
| HUMIDITY                         | 10-95% RH non-condensing                                                     |
| WARRANTY                         | See instruction manual for full warranty information                         |
| INSTRUMENT LIFE                  | Indefinite with sensor and battery replacement as needed                     |
| BATTERY                          | CR2 lithium camera battery (9000 hour installed life - typical)              |
| CASE                             | Polycarbonate with rubberized shell                                          |
| DISPLAY                          | Large LCD with backlight                                                     |
| HUMIDITY                         | 10-95% RH non-condensing                                                     |
| INGRESS PROTECTION               | IP67 (except O2-R is IP54)                                                   |
| DATA LOGGING                     | 50 latest events in session log. Peak value every 3 minutes in periodic log. |
| CERTIFICATIONS:<br>US AND CANADA | Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Group G             |
| EUROPE                           | Ex ia IIC T4                                                                 |
| USA                              | AEx ia IIC T4                                                                |
| EUROPEAN UNION                   | ATEX II 2G Ex ia IIC T4                                                      |
| AUSTRALIA                        | Ex ia IIC T4 (Ta = 50°C)                                                     |

| GASES MEASURING RANGES: |                                                               |            |
|-------------------------|---------------------------------------------------------------|------------|
| GAS                     | Range                                                         | Resolution |
| OXYGEN                  | 0-25% by vol                                                  | 0.1 Vol.%  |
| CARBON MONOXIDE         | 0-1500 ppm                                                    | 1 ppm      |
| HYDROGEN SULFIDE        | 0-200 ppm                                                     | 1 ppm      |
| HYDROGEN CYANIDE        | 0-30 ppm                                                      | 0.5 ppm    |
| CHLORINE                | 0-20 ppm                                                      | 0.1 ppm    |
| CHLORINE DIOXIDE        | 0-1.00 ppm                                                    | 0.02 ppm   |
| SULFUR DIOXIDE          | 0-20 ppm                                                      | 0.1 ppm    |
| NITROGEN DIOXIDE        | 0-20 ppm                                                      | 0.1 ppm    |
| AMMONIA                 | 0-100 ppm                                                     | 1 ppm      |
| PHOSPHINE               | 0-5.00 ppm                                                    | 0.05 ppm   |
| REMOTE OXYGEN (O2-R)    | 0-25% by vol                                                  | 0.1Vol%    |
| ALARMS                  | Average > 95 dB @ 1 ft, bright LEDs, vibrating alarm standard |            |

| INSTRUMENT TYPE                      | P/N      | Low Alarm | High Alarm | STEL    | TWA     |
|--------------------------------------|----------|-----------|------------|---------|---------|
| OXYGEN (O <sub>2</sub> )             | 10074137 | 19.50%    | 23.00%     | N/A     | N/A     |
| CARBON MONOXIDE (CO)                 | 10074135 | 25 ppm    | 100 ppm    | 100 ppm | 25 ppm  |
| CARBON MONOXIDE (CO) FIRE            | 10076723 | 25 ppm    | 200 ppm    | 100 ppm | 25 ppm  |
| CARBON MONOXIDE (CO) STEEL           | 10076724 | 75 ppm    | 200 ppm    | 200 ppm | 75 ppm  |
| HYDROGEN SULFIDE (H <sub>2</sub> S)  | 10074136 | 10 ppm    | 15 ppm     | 15 ppm  | 10 ppm  |
| HYDROGEN CYANIDE (HCN)               | 10076729 | 4.7 ppm   | 10 ppm     | 10 ppm  | 4.7 ppm |
| CHLORINE (ClO <sub>2</sub> )         | 10076716 | 0.5 ppm   | 1.0 ppm    | 1.0 ppm | 0.5 ppm |
| CHLORINE DIOXIDE (ClO <sub>2</sub> ) | 10076717 | 0.1 ppm   | 0.3 ppm    | 0.3 ppm | 0.1 ppm |
| SULFUR DIOXIDE (SO <sub>2</sub> )    | 10076736 | 2.0 ppm   | 5.0 ppm    | 5.0 ppm | 2.0 ppm |
| NITROGEN DIOXIDE (NO <sub>2</sub> )  | 10076731 | 2.0 ppm   | 5.0 ppm    | 5.0 ppm | 2.0 ppm |
| AMMONIA (NH <sub>3</sub> )           | 10076730 | 25 ppm    | 50 ppm     | 35 ppm  | 25 ppm  |
| PHOSPHINE (PH <sub>3</sub> )         | 10076735 | 0.3 ppm   | 1.0 ppm    | 1.0 ppm | 7 ppm   |
| OXYGEN REMOTE (OR-2)                 | 10076733 | 19.50%    | 23.00%     | N/A     | N/A     |
| ALTERNATE SET POINT MODELS           | P/N      | Low Alarm | High Alarm | STEL    | TWA     |
| OXYGEN (O <sub>2</sub> )             | 10076732 | 19.50%    | 18.00%     | N/A     | N/A     |
| CARBON MONOXIDE (CO)                 | 10076718 | 30 ppm    | 60 ppm     | 60 ppm  | 30 ppm  |
| CARBON MONOXIDE (CO)                 | 10076719 | 35 ppm    | 100 ppm    | 100 ppm | 35 ppm  |
| CARBON MONOXIDE (CO)                 | 10076720 | 35 ppm    | 400 ppm    | 400 ppm | 35 ppm  |
| CARBON MONOXIDE (CO)                 | 10076721 | 50 ppm    | 200 ppm    | 200 ppm | 50 ppm  |
| CARBON MONOXIDE (CO)                 | 10076722 | 100 ppm   | 300 ppm    | 300 ppm | 100 ppm |
| CARBON MONOXIDE (CO) STEEL           | 10080532 | 199 ppm   | 200 ppm    | 300 ppm | 35 ppm  |
| HYDROGEN SULFIDE (H <sub>2</sub> S)  | 10076728 | 10 ppm    | 20 ppm     | 10 ppm  | 10 ppm  |
| HYDROGEN SULFIDE (H <sub>2</sub> S)  | 10076725 | 5 ppm     | 10 ppm     | 10 ppm  | 5 ppm   |
| HYDROGEN SULFIDE (H <sub>2</sub> S)  | 10076727 | 8 ppm     | 12 ppm     | 12 ppm  | 8 ppm   |
| HYDROGEN SULFIDE (H <sub>2</sub> S)  | 10076726 | 7 ppm     | 14 ppm     | 14 ppm  | 7 ppm   |

| ACCESSORIES AND PARTS |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| P/N                   | Description                                                                         |
| 467895                | Regulator, 0.25 lpm                                                                 |
| 10030325              | Tubing, 16" (do not use with NH <sub>3</sub> , Cl <sub>2</sub> , ClO <sub>2</sub> ) |
| 10080534              | Tubing, 16" Tygon-lined (NH <sub>3</sub> , Cl <sub>2</sub> , ClO <sub>2</sub> )     |
| 10074132              | 3V CR2 battery                                                                      |
| 10069894              | Clip, stainless steel                                                               |
| 10041105              | Cellphone clip                                                                      |
| 10041107              | Lanyard clip                                                                        |
| 10073346              | Hardhat clip                                                                        |
| 10040002              | Clip, suspender (standard)                                                          |
| 10088099              | MSA Link Software CD                                                                |
| 10082834              | IR adaptor for USB                                                                  |

*Note: The ALTAIR QuickCheck Station and ALTAIR GALAXY GX2 Automated Test System are available for bump testing and calibration of most versions of ALTAIR and ALTAIR Pro Single-Gas Detectors.*



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**J.THADHANI & CO.**

New #12/ Old #28, Stringers Street,  
Chennai - 600001, Tamilnadu, India.



**044 - 4262 5223**

**info@thadhanisafety.com**

**www.thadhanisafety.com**