



## Model TA-2102 *smarter* Fixed Gas Detectors Toxic Gases & Oxygen Hundreds of Gases & Vapors

### ➤ Features

**no false alarms** utilizing Mil-Ram's ultra-stable Electrochemical Sensors

Self-Calibration adjusts monthly based on sensor life curve

Auto-Gas Calibration, non-intrusive, hands-free, magnetic switches

Not affected by temperature/humidity over specified range - stable by design

LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches - diagnostic messages

Offsite sensor calibration with memory chip embedded in sensor

Peak Value, 15-min. TWA, Remaining Sensor Life, Replace Sensor indication and number of days since last gas calibration

Loop Powered - Intrinsically Safe option

Optional Enclosures - 316 stainless steel, Nema 4x polycarbonate

Available suitable for use in SIL 2 environments / Advanced diagnostics

### Options

- Sensor Cable
- Sample Pump
- Duct Mount Kit
- Splash Guard
- Wireless Module
- 110/220 Vac
- Calibration Kits
- 316 SS Enclosure
- Sil 2 (some models)

### ➤ Specifications - Typical (see specific data sheet)

Specifications subject to change without notice due to continuing program of product innovation. See specific data sheets for more information.

|                         |   |
|-------------------------|---|
| Detection Principle:    | Electrochemical Sensor Technology - ultra stable                    |
| Detection Method:       | Diffusion, Remote Sensor or Sample Drawing with Integral Pump       |
| Detection Range:        | Low ppm to % volume (depends on gas type - see specific data sheet) |
| Calibration Method:     | Non-intrusive, magnetic tool  |
| Operating Voltage:      | 12 - 30 VDC, 24 VDC nominal   |
| Power Requirements:     | 0.48W @ 24 VDC (see specific data sheet)                            |
| Electrical Connections: | Power (24 VDC) and Signal (4-20mA)                                  |
| Cable Requirements:     | 2-wires, shielded   |
| Connection Type:        | 2-wire, loop powered  |
| Resolution:             | 0.01 ppm/0.1 ppm/1 ppm/0.1% volume (depends on gas type)            |
| Zero Drift:             | less than 1% of full-scale typical                                  |
| Temperature Range:      | -40°C to +55°C (depends on gas type - see specific data sheet)      |
| Humidity Range:         | 0 - 95% RH, non-condensing (see specific data sheet)                |
| Response Time:          | <30 sec. to 90% of final reading (see specific data sheet)          |
| Recovery Time:          | <30 sec. to 90% recovery (see specific data sheet)                  |
| Sensor Service Life:    | > 2 years typical, depends on sensor type and conditions            |
| Electronic Enclosure:   | Ex-Proof, alum. or 316 SS, Nema 4x                                  |
| Certifications:         | UL Class I, Division 1, GR B,C,D pending                            |

Toxic • LEL Combustible • Oxygen • VOCs • Hydrides • Hydrocarbons  
Gas Detection **no false alarms** Fire Detection

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