

# MIL-RAM TECHNOLOGY

no false alarms

Since 1990

ISO 9001:2008 Registered

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## Model TA-2100 *smarter* Fluorine F<sub>2</sub> Gas Detector

### ➤ Features

**no false alarms** patented electrochemical sensor technology

Self-Calibration adjusts monthly based on sensor life curve

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

Not affected by temperature -25°C to +50°C, stable by design

LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches - LED alarm indicators

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

Optional Relay Module; low, mid, high and fault conditions

Optional RS-485 Modbus RTU Network interface

Available suitable for use in **SIL 2** environments / Advanced diagnostics

Part No. 01-2602

### Options

- Modbus RTU
- Relay Module
- Sensor Cable
- Sample Pump
- Duct Mount Kit
- Dust Guard
- Splash Guard
- Wireless Module
- 110/220 VAC
- Calibration Kits
- 316 SS Enclosure

### ➤ Specifications

|                         |  |
|-------------------------|--|
| Detection Principle:    | Electrochemical - Amperometric         |
| Detection Method:       | Diffusion or Sample Drawing            |
| Detection Range:        | 0.0 - 5.0 ppm (parts-per-million)      |
| Calibration Method:     | Non-intrusive, magnetic tool           |
| Operating Voltage:      | 12 - 30 VDC, 24 VDC nominal            |
| Power Requirements:     | 1.08 W @ 24 VDC                        |
| Electrical Connections: | Power (24 VDC) and Signal (4-20mA)     |
| Cable Requirements:     | 3 or 4 wires, shielded                 |
| Optional Connections:   | RS-485 Half-duplex (Modbus RTU)        |
| Resolution:             | 0.1 ppm minimum detection level        |
| Zero Drift:             | less than 0.1 ppm                      |
| Temperature Range:      | -25°C to +50°C                         |
| Humidity Range:         | 10 - 95% RH, non-condensing            |
| Response Time:          | <45 sec. to 90% of final reading       |
| Recovery Time:          | <30 sec. to 90% recovery               |
| Sensor Service Life:    | >3 years typical; normal conditions    |
| Electronic Enclosure:   | Ex-Proof, alum. or 316 SS, Nema 4x     |
| Certifications:         | CSA, Class I GR B,C,D haz. loc. avail. |

### ➤ Applications

- Nuclear Power
- Chemical Processing
- UF<sub>6</sub> Production
- SF<sub>6</sub> Production
- Semiconductors
- Laboratories
- Freon® Production
- Water Treatment

Specifications subject to change without notice due to continued program of product innovation.

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

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