

# MIL-RAM TECHNOLOGY

no false alarms

Since 1990

ISO 9001:2008 Registered

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## Model TA-2100 *smarter* Fixed Gas Detectors

Sample Drawing Configuration  
Toxics, Combustibles, VOCs, Oxygen  
Hundreds of Gases & Vapors



### ➤ Features

**no false alarms** utilizing stable and reliable sensor technologies

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 - 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

Heavy-duty, chemically resistant pump - Advanced diagnostics

### Options

- Modbus RTU
- Relay Module
- Wireless Module
- 110/220 Vac
- Calibration Kits
- 316 SS Enclosure

### ➤ 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:	PID, Catalytic, Electrochemical, Infrared, Solid-State MOS
Detection Method:	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:	24 VDC nominal
Power Requirements:	1.08 - 1.82 W @ 24 VDC (see specific data sheet)
Electrical Connections:	Power (24 VDC) and Signal (4-20mA)
Cable Requirements:	3 or 4 wires, shielded (gas detector and pump)
Optional Connections:	RS-485 Half-duplex (Modbus RTU)
Resolution:	0.01 ppm/0.1 ppm/1 ppm/0.1% volume/1% LEL (depends on gas type)
Zero Drift:	less than 1% of full-scale typical
Temperature Range:	-25°C to +50°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
Enclosure Certifications:	UL/CSA, Class I, Groups B, C, D

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

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