

MIL-RAM TECHNOLOGY

no false alarms

Since 1990

ISO 9001:2008 Registered

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Model TA-2100 *smarter* Nitric Acid Vapor HNO₃ 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. 01-2612

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 - 20.0 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:	<60 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

- Chemical Processing
- Food Processing
- Explosives Production
- Dye Production
- Laboratories
- More

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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