

# MIL-RAM TECHNOLOGY

no false alarms

Since 1990

ISO 9001:2008 Registered

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## Model TA-2100 *smarter* Ammonia NH<sub>3</sub> Gas Detector

### ➤ Features

Part No. 01-2611

#### 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

- 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 -40°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

### ➤ Specifications

Detection Principle:	Electrochemical - Amperometric
Detection Method:	Diffusion or Sample Drawing
Detection Range:	0 - 200 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:	1 ppm minimum detection level
Zero Drift:	less than 5 ppm
Temperature Range:	-40°C to +50°C
Humidity Range:	10 - 95% RH, non-condensing
Response Time:	<60 sec. to 90% of final reading
Recovery Time:	<2 min. to 90% recovery
Sensor Service Life:	>2 years typical; normal conditions
Electronic Enclosure:	Ex-Proof, alum. or 316 SS, Nema 4X
Certifications:	UL, Class I, Division 1, GR B,C,D

### ➤ Applications

- Water Treatment
- Wastewater Treatment
- Refrigeration
- Chemical Processing
- Pulp & Paper
- Food & Beverage
- Laboratories
- Metal 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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