

# MIL-RAM TECHNOLOGY

no false alarms

Since 1990

ISO 9001:2008 Registered

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## Model TA-2100 *smarter* Oxygen O<sub>2</sub> Gas Detector

### ➤ Features

**no false alarms** 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 -15°C to +40°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. 01-2625

#### 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 - 25.0 % Volume
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 % Vol. minimum detection level
Pressure Coefficient:	0.01% signal/mBar
Temperature Range:	-15°C to +40°C
Humidity Range:	15 - 95% RH, non-condensing
Response Time:	<30 sec. to 90% of final reading
Recovery Time:	<30 sec. to 90% recovery
Sensor Service Life:	>12 mos. typical; normal conditions
Electronic Enclosure:	Ex-Proof, alum. or 316 SS, Nema 4X
Certifications:	UL, Class I, Division 1, GR B,C,D

### ➤ Applications

- Aerospace
- Chemical Processing
- Pulp & Paper Mills
- Boilers
- Combustion Processes
- Gasification
- Steel Mills
- Pharmaceuticals

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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