

MIL-RAM TECHNOLOGY

Since 1990

smarter Gas Transmitters

smarter Transmitter Features

- ◆ **no false alarms** Mil-Ram **patented** sensor technology
- ◆ Self calibration adjusts span monthly based on sensor life curve - reduces calibration frequency and cost
- ◆ Auto gas calibration, non-intrusive, hands-free, magnetic switches
- ◆ Wireless Telemetry option - transmit 4-20mA signals via wireless connectivity - greatly reduces installation costs
- ◆ LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches (Model TA-2100 backlit)
- ◆ Offsite sensor calibration to replace sensors in the field w/o recalibration
- ◆ Peak Value, 15-min. TWA, Temperature
- ◆ Remaining sensor life and Replace sensor indication
- ◆ Operating Voltage - 12 or 15-30 VDC (TA-2100); 10-30 VDC (TA-2102)
- ◆ Class I GR B,C,D Nema 4X or Nema 4X plastic enclosure
- ◆ Continuous Diagnostics

Model **TA-2100**: 3 or 4-Wire *smarter* Transmitter

- ◆ Relay Module option in same enclosure - low, mid, high and fault relays - gas alarm relays can be programmed latching/non-latching, energized/non-energized and time delays
- ◆ RS-485 Modbus RTU option - provides multi-drop installations with serial communications to centralized control system (PLC, DCS, etc.)
- ◆ **Intrinsically safe** LEL sensor installation (contact factory)

Model **TA-2102**: 2-Wire, Loop Powered *smarter* Transmitter

- ◆ **Intrinsically safe** option; requires approved zener diode barriers

Sensors **patented** by Mil-Ram

- ◆ **no false alarms** Mil-Ram electrochemical sensor technology
- ◆ No *zero drift* with changes in temperature/humidity/pressure
- ◆ No LEL, methane, hydrocarbons, CO, CO₂, VOCs gas interference
- ◆ Do not saturate with occasional exposure to high gas levels
- ◆ Do not *go to sleep* after long periods in gas-free air
- ◆ Chemically selective based on unique electrolyte chemistry
- ◆ Long life: >3 years typical under normal operating conditions



Sensor Technologies

- ⚙ Electrochemical
- ⚙ Catalytic
- ⚙ Solid-State MOS
- ⚙ Ambient & Sample Drawing
- ⚙ Infrared
- ⚙ PID

Toxic-Combustible-Oxygen Hundreds of Gases

- Standard & Custom Configurations
 - Turn-Key Systems Integration
- Networking & Wireless Options

Typical Applications

- ◆ Oil & Gas
- ◆ Chemicals & Plastics
- ◆ Water & Wastewater Treatment
- ◆ Semiconductor & Electronics
- ◆ Tanker Ships & Vessels
- ◆ Laboratories & Universities
- ◆ Pulp & Paper
- ◆ Food Processing & Refrigeration
- ◆ Pharmaceuticals
- ◆ Any Industrial Process that generates Toxic and/or LEL Gas

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REGISTERED TO ISO 9001:2008
FILE NUMBER 10000574 QM08

MIL-RAM
Patented Technology
no false alarms
Gas Detection Systems
ISO 9001:2008 Registered