

# MIL-RAM TECHNOLOGY

Since 1990

## Gas Detection Controller

Digital Modbus RTU *smarter* Transmitter Network

### TA-2016MB-WM Controller Features

- ◆ Use with any Mil-Ram Model TA-2100MB *smarter* Transmitter. Toxic/LEL/VOC/Oxygen: hundreds of different gases and vapors.
- ◆ 16-Channel system utilizing RS-485 Modbus RTU Network.
- ◆ Multi-drop Network eliminates separate wiring to each Transmitter.
- ◆ Four relays (SPDT), 10 Amp. common to all channels. Select latching or non-latching function. Low, Mid, High and Fault relays. LED alarm indicators. Audible buzzer alarm. External alarm stations optional.
- ◆ *Optional*: Remote Relay Modules, Modbus enabled, can be installed at any point on RS-485 network. Up to 16 modules per network. Up to 16 different zones. Conveniently install relays at point of use. Eliminates long wiring runs between relays and field installed alarms.
- ◆ *Optional*: Remote Analog Output Module. Provides discrete analog 4-20mA output (16 bit resolution) per channel.
- ◆ *Optional*: Remote Digital Output Module. Provides RS-485 Modbus RTU interface to Centralized System (e.g. PLC)
- ◆ *Optional*: Analog Input Module to connect standard 4-20mA Transmitters where traditional analog installation is preferred.
- ◆ Backlit 16 characters x 2 lines LCD display. Auto-scrolls to provide channel data and fault conditions. Indicates alarm status.
- ◆ Simple front panel, push button channel setup. Auto-Configuration wizard provides rapid channel setup without special knowledge.
- ◆ Nema 4x weather-proof polycarbonate enclosure (XP available)
- ◆ Continuous Diagnostics. *Wireless* Options (consult factory).

### 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, CO<sub>2</sub>, 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

Gases & Instrumentation  
2010 Golden Gas Award

### Digital Modbus

16-Channel Control System  
(8 Channel Model Available)



### Model TA-2016MB-WM Auto-Configuration

110 VAC or 24 VDC

### 16 Channel System

Modbus RTU Network

-up to 16 Gas Detectors

-up to 16 Relay Modules

-up to 16 Alarm Zones



RS-485 Modbus RTU Network



Relay Module

(Analog Input Module available for  
connecting traditional 4-20mA Transmitters)

### Gas

### Detectors



Model TA-2100MB *smarter* Transmitters  
(LEL, Toxic, VOC, Infrared, MOS, more)



MIL-RAM TECHNOLOGY, INC.  
REGISTERED TO ISO 9001:2008  
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**MIL-RAM**  
Patented Technology  
*no false alarms*  
Gas Detection Systems  
ISO 9001:2008 Registered

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