Tel: 00-44-8450751042 • Fax: 00-44-8450751043 • Email: info@fireguard-uk.com
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Rack Mount Controller
Fire / Toxic / Combustible

RM2 MILLENNIUM

The Millennium RM2 is a 2-channel rack mount controller designed to offer you the ultimate in control and versatility! Create the monitoring system to suit your installation requirements by combining any two of Fireguard's Fire detectors, Toxic gas sensors or Combustible gas transmitters. Now you can save money and safeguard your installation against a variety of potential hazards or cover multiple zones with a single monitoring device.

Independent Channels!

The RM2's independent channels eliminate the standard industry limitation of monitoring only fire OR only gas by adding a new level of flexibility—combining Fire AND Gas detection! The RM2 functions as the centralized display and alarm point for any combination of two independent Fire and Gas detectors, expanding both your zone and hazard protection.

Flexible Configuration!

Setup, operate, monitor and maintain the RM2 using the Front Panel Push button or connect a PC or even PDA via the serial communications port. Either way, you decide HOW and WHERE you operate the RM2. The RM2 contains custom designed software and a number of user programmable options to configure the RM2 to exactly suit your needs—in the field—on demand!

Automatic Tracking!

The Event Logging feature securely stores in protected RAM up to 1000 events. This optional feature is an extremely valuable diagnostic reference—automatically listing the date, time, channel, detector type and the associated alarm, fault or calibration event. Highly useful information for developing maintenance schedules or performing troubleshooting and sequence of events analysis.

Information At-a-glance!

The RM2 is designed to make operation and maintenance simple—without compromising safety or reliability! Specifically designed with end user input, the RM2 shows you what you need to know quickly and easily. Each channel has its own clearly visible display with helpful prompts to guide you through setup and maintenance tasks. Bright LEDs visually indicate warnings and alerts for each input channel and the RM2 circuitry.

Reduced Operating Costs!

False alarms cost $$$! With the RM2's independent channels, activity on one channel does not affect the other channel so a variety of tasks and activities can be performed without initiating false alarms. Use the unique LowPower feature to reduce power consumption where and when you need it! And, the RM2's superior functional design decreases the time necessary to perform most routine operational and maintenance tasks—saving you money!

MIX or MATCH

Select a Fireguard Uni-Tran or Millennium Combustible Gas Controller.

Pair with a Catalytic Bead Combustible sensor with proprietary Sesnor Guard technology designed to protect a pellistor sensor from potential poisoning due to high gas concentrates. This helps to prolong sensor life, reduce calibration frequency and ensure continuous and reliable performance.

Or select a Combustible Infrared sensor which employs a simple and effective optical design. The entire optical path is protected from airborne contaminants and there are no mirrors to become fogged, fouled, misaligned or clearned.

Both are rated CSA and NRTL/c certified for Class I, Division 1, Groups B,C and D for hazardous locations.

Uni-Tran & Millennium Controllers

Fireguard's line of electro-chemical sensors provide fast, accurate and continuous monitoring of toxic gases under the most severe conditions. Exceptional resistance to warm, cold and low humidity environments ensures a long life and extended calibration intervals.

ST Series TOXIC Sensors

Hydrogen Sulfide (H2S)	Sulphur Dioxide (SO2)
Carbon Monoxide (CO)	Chlorine (CL2)
Vinyl Cloride (C2H3Cl)	Hydrogen Fluoride (HF)

Optical Flame Detectors

Select from a variety of Fireguard Optical Flame Detectors designed to respond to specific ranges of radiation.

Single UV (Ultraviolet)	Single IR (Infrared)
UV / IR (Ultraviolet / Infrared)	Phoenix Triple IR

Features include a unique modular sensor/electronic assembly, clearly visible status LEDs, analog or relay outputs, automatic and/or manual Optical self test, field adjustable time delay and sensitivity settings. Detector Field of View can reach 120 degrees. Install indoors or out, adjustable swivel mount included.

All detectors are CSA & NRTL/c certified for Class I, Division 1, Groups B, C and D as well as Factory Mutual certified to Class 3260 Fire Detection Performance Standards.

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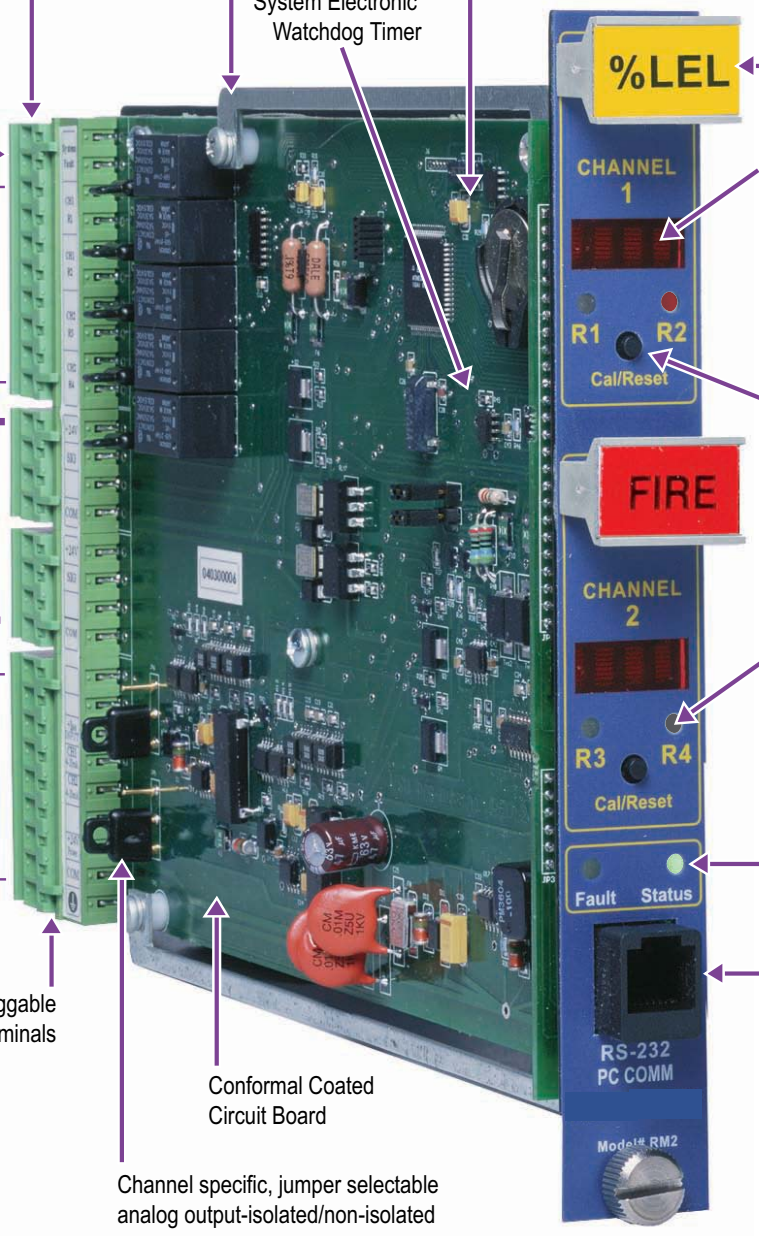
Millennium RM2 Controller



Rails to easily slide into cages

5 SPDT relays- (2 per channel/1 common Fault)
Jumpler selectable as Normally Open or Closed

Protected Memory

Internal System Electronic Watchdog Timer

Detector Type Identifier

Relay set point System Fault

4-character scrolling display
- indicates Channel Status
- displays instructions and prompts

Relay set points High/Low = Gas
Fire/Fault = Fire

Calibration/Reset Button
- press to access menus
- press to clear latched alarms
- press to calibrate gas sensors

Status LEDS
R1 & R3 - Fire = Fault
Gas = Low Alarm
R 2 & R4 - Fire = Fire Alarm
Gas = High Alarm

Current Output & Power terminals

Common System LEDs indicate system status and fault status

RS-232 Serial Communications Port
-Connect a PC or PDA

Pluggable terminals

Conformal Coated Circuit Board

Channel specific, jumper selectable analog output-isolated/non-isolated

Rack Mount Controller
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RM2 (RACK MOUNT 2-CHANNEL CONTROLLER) ANALOG & RELAY SPECIFICATIONS*

Operating Voltage	10.5 V dc to 32 V dc
Power Consumption 12 V dc	nominal 150 mA/250 mA (1.8 W / 3.0 W) de-energized / energized maximum 290 mA/3.48 W
Power Consumption 24 V dc	nominal 80 mA/130 mA (1.92 W / 3.12 W) de-energized / energized maximum 160 mA/3.84 W
Operating Temperature	-40°C + 80°C (-40F to +176F)
Humidity Range	0-100% relative humidity, non-condensing
Chassis Material	16 gauge steel / powder coated
Weight	2 lbs (0.9 kilograms)
Certification	CSA and NRTL/C for hazardous locations. Class 1, Division 2, Groups A, B, C and D. Factory Mutual (FM) certified to Class 3260 for performance in fire alarm systems (pending).
Current Outputs-2 channel	4 to 20 mA - Into a maximum loop impedance of 800 Ohms at 32 V dc or 150 Ohms at 10.5 V dc. Isolated or non-isolated loop supply.
Relay Output- 5 relays	Form C contacts rated 5 Amps at 30 V dc / 250 V ac. Selectable energized / de-energized, latching / non-latching, N.O. or N.C. Fault relay fixed as energized, non-latching.

* Modbus RTU configuration also available. Contact factory.

ORDERING INFORMATION

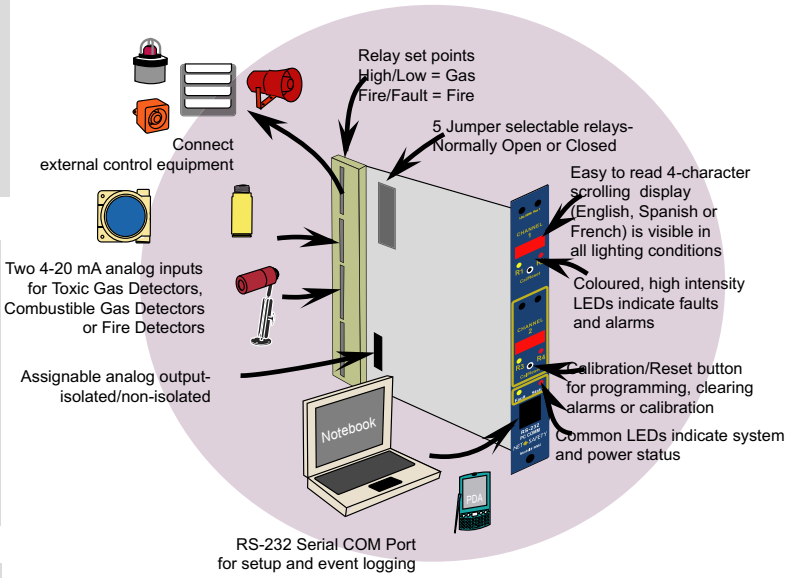
When ordering, please specify channel type and channel configuration.
Part numbers are as follows with F=Fire, C=Combustible, T=Toxic.

RM2-AR-CC	RM2-AR-CF	RM2-AR-CT
RM2-AR-FC	RM2-AR-FF	RM2-AR-FT
RM2-AR-TC	RM2-AR-TF	RM2-AR-TT

Optional Event Logging (EL) available (password required for activation).
Example: RM2-AR-FF-EL (both channels Fire with Event Logging option).
*Specify channel combinations when ordering.

COMPATIBILITY

The following Fireguard detectors are fully functional with the RM2 System:
Fire Detectors
IR3S-A (Triple Infrared detector)
IRS-A (Infrared detector)
UVS-A (Ultra-violet detector)
UV/IRS-A (Ultra-violet/Infrared detector)
Combustible and Toxic Gas Detectors
Millennium Controller Series
Uni-Tran Controller Series
Toxic Gas Sensor / Transmitters
ST Toxic Sensors Series

ACCESSORIES

Communication Kit	RM2-COM-KIT
Rack Mount Cage	CAGE 2, 4,8,12,16
Blank Filler Plate	BFP