



## GENERAL DESCRIPTION

*The MR-2605 is a versatile, power-packed fire alarm control panel designed for small building fire protection!*

*With its exceptional feature set, a power supply that will handle the panel's full rated load and flexible front panel programming for quick and simple configuration to suit the application at hand, the MR-2605 is a powerful, versatile panel, ideally suited for small, fast turnaround fire applications.*

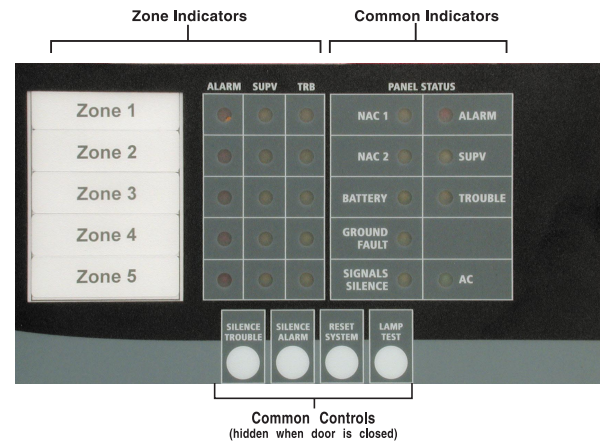
## FEATURES

- UL and ULC listed
- CSFM AND MEA pending
- 5 Style B (Class 'B') dual-use zones
- 2 Style Y (Class 'B') notification appliance circuits
- 4.2A power supply
- 500mA of aux. power
- Common alarm relay
- Common trouble relay
- Integral battery charger
- 'Secur-Bus' for dialer and remote annunciation
- Event buffer
- Six programmable zone options
- Class A capability, both NAC and Zones
- One-man walk test
- Programmable NAC silence timer
- 5 year warranty

## STANDARD FEATURES

- **5 Style B (Class 'B') dual-use zones**
  - each zone can monitor and tell the difference between 2-wire smoke detectors and contact alarm initiating devices. This means that smokes can be verified while manuals and heats initiate an instant alarm. End of line resistor is 4.7k.
- **2 Style Y (Class 'B') notification appliance (bell) circuits**
  - each NAC zone is power limited and provides 1.5A at 24VDC full wave rectified for heavy duty signal loads. NAC's can be programmed for Steady, Temporal or Strobe (Strobe turns off when reset only - NAC 2 only). End of line resistor is 4.7k.
- **4.2A power supply**
  - a full 3.0A of NAC power, 0.5A aux. power with the balance to run the panel and charge the batteries. No extra transformers or added power supplies are required.
- **500mA of Aux. power**
  - with switched and unswitched outputs - Power Limited
- **Common 'Alarm' relay**
  - Form 'C'
- **Common 'Trouble' relay**
  - Form 'C'
- **Integral battery charger**
- **'Secur-Bus'**
  - 4 wire port for communication and power to accessory components. All Secur-Bus accessory components are supervised. (Relay module and Style D (Class 'A') Zone module are not on Secur-Bus)
- **Event buffer**
  - the last 20 events are stored in memory with easy recall for trouble shooting field problems.
- **Six programmable zone applications**
  - each zone can be individually programmed as:
    - **Null...**zone not used
    - **Instant...**smokes/contacts instant
    - **Verify...**smokes verified, contacts instant
    - **Waterflow...**to monitor waterflow switches with an optional waterflow delay
    - **Supervisory...**to monitor fire supervisory functions
    - **4-Wire Verify...**verify alarms from four-wire smoke detectors
- **Style D/Style Z (Class 'A'/'B') capability**
  - NAC's are jumper selectable for one Style Z (Class 'A') zone and an optional module converts both initiating zones to Style D (Class 'A').

Front Panel Controls & Indicators



- **One-man walk test**
  - audible or silent
- **Programmable features:**
  - 60 sec. silence inhibit timer...Y/N
  - 30 min. auto-silence timer...Y/N
  - waterflow silence inhibit...Y/N
- **3 LED's per zone**
  - alarm (red), supervisory (yellow) and trouble (yellow)
- **Common Trouble LED's**
  - NAC 1 & 2 trouble, battery trouble, ground fault, signals silenced, common alarm, common supervisory, common trouble and AC on.
- **Controls**
  - trouble silence, signal silence, system reset and lamp test. The controls are only accessible when the door is open.
- **Front panel programming**
  - front panel LED's and switches are used for simple, quick programming.

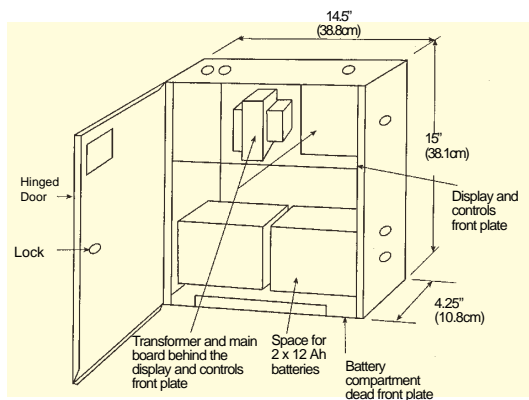
## OPTIONAL FEATURES

- **'Cabinet mounted' options:**
  - Dual line dialer module
  - City-tie/polarity reversal module
  - Relay module
  - Style D (Class 'A') zone module
- **'Remote mounted' options:**
  - Remote trouble buzzer, LED and trouble silence switch
  - Remote 5 zone fire/supervisory annunciator with trouble buzzer, LED and trouble silence switch
- **Cabinet hardware option:**
  - Flush trim

## TECHNICAL DATA

AC power	120V 60Hz 1.5A, 240v 50Hz
NAC 1	24 VDC full-wave rectified, 1.5A max., PTC overload protected, power limited, Style Y, (Class 'B').
NAC 2	24 VDC full-wave rectified, 1.5A max., PTC overload protected, power limited, Style Y (Class 'B').
NAC 1/2 as Style Z/(Class 'A')	24 VDC full-wave rectified, 1.5A max., PTC overload protected, power limited
Zones	24 VDC filtered regulated, 60mA alarm current max., power limited, 100 ohms max. line resistance.
DAT/CLK	Data and clock line for remote module communications. (Secur-Bus)
Aux+	24 VDC filtered regulated, 500mA max., PTC overload protected, power limited.
COM	Non-switched return for AUX+ power, 500mA
SCOM	Switched return for AUX+ power, 500mA
<b>Note:</b> The 500mA from AUX+ is shared between the COM and SCOM returns. Internal and remote module power is supplied from the AUX+ and COM supply.	
Alarm relay contacts	30 VDC, 2A max.
Trouble relay contacts	30 VDC, 2A max.
Battery charger	24 VDC, 350mA max. Will charge up to 16AH* sealed lead-acid batteries max.
Cabinet	14 1/2" W x 15" H x 4 1/4" D - Red or Grey

\*External cabinet required for batteries larger than 12AH



## ORDERING INFORMATION

Model	Description
<i>5 Zone Fire Alarm Control Units</i>	
MR-2605R	5 Zone Fire Alarm Control Unit, Red
MR-2605G	5 Zone Fire Alarm Control Unit, Gray
MR-2605R-240	5 Zone Fire Alarm Control Unit, Red, 240VAC
MR-2605G-240	5 Zone Fire Alarm Control Unit, Gray, 240VAC
MR-2605R-F	5 Zone Fire Alarm Control Unit, Red, French (Bilingual)
MR-2605G-F	5 Zone Fire Alarm Control Unit, Gray, French (Bilingual)
MR-2605R-S	5 Zone Fire Alarm Control Unit, Spanish
MR-2605R-P	5 Zone Fire Alarm Control Unit, Portuguese
MR-2605R-S-240	5 Zone Fire Alarm Control Unit, Spanish, 240VAC
MR-2605R-P-240	5 Zone Fire Alarm Control Unit, Portuguese, 240VAC

### Accessories

MR-2993	12 Ah Battery Pack
MR-2994	7.0 Ah Battery Pack
MR-2995	4.0 Ah Battery Pack
MR-2605A	5 Zone Class "A" Module
MR-2605-3A	3 Programmable Form "C" Relays, 2A@30VDC
MR-2801	Local Energy & Polarity Reversal Module
MR-2806	Dual Line Digital Dialer
MR-2605T	Remote Trouble Indicator
MR-2605-AT	Remote Trouble & Alarm Indicator
MR-2605R-FT	Flush Trim, Red
MR-2605G-FT	Flush Trim, Gray
MR-2844	Hand held Programmer for MR-2806

**Note:** MR-2605T and MR-2605AT for French, Spanish & Portuguese add suffix "F" for French, "S" for Spanish & "P" for Portuguese

# MODUL-R™ MR-2605

## 5 ZONE CONVENTIONAL FIRE ALARM CONTROL UNIT

### ENGINEER'S SPECIFICATIONS

The contractor shall supply a 5 zone, fully supervised fire alarm control panel. The panel shall supervise and monitor both 2-wire smoke detectors and contact alarm initiating devices on each two-wire zone.

The control panel shall be complete with two Style B (Class 'B') alarm initiating zones, two Style Y (Class 'B') notification appliance circuits, one Form 'C' common alarm relay, one Form 'C' common trouble relay, one non-switched Aux. power output, and one switched Aux. power output. The panel shall include individual alarm, supervisory and trouble LED indicators per zone.

Each alarm initiating zone shall be capable of being individually programmed for smoke/contact instant alarm, smoke auto-verify and contact instant, supervisory, water flow or four-wire smoke auto-verify service. Each alarm initiating zone shall limit the maximum current to 60mA and be supervised for opens and ground faults. An optional module that mounts inside the cabinet shall be available to convert the five alarm initiating zones to Style D (Class 'A').

Each notification appliance circuit shall be supervised for opens, shorts and ground faults. Each notification appliance circuit shall be capable of being individually programmed as steady or temporal (ANSI cadence). Each notification appliance circuit shall supply 24VDC full wave rectified at 1.5A and be power limited. NAC's shall be capable of being jumper programmed to operate as a single Style Z (Class 'A') NAC. NAC #2 shall also be capable of being programmed as strobe whereby the NAC will only silence after the panel is reset.

The total Aux. power shall be 24VDC, 500mA max. and be power limited. The control panel power supply shall support the Aux. power (0.5A), the two NAC's (3.0A), the battery charger (0.35A) and the control panel without the addition of any other power supplies or components.

The control panel shall include a four-wire output which shall provide power and communication for up to four remote trouble indicators and up to four remote alarm annunciator/trouble indicators. Each remote shall be supervised for its presence.

The panel shall accommodate, within the cabinet, an optional three (3) relay module. Each relay shall be Form C and be individually selectable for alarm, supervisory or trouble operation. Relay contacts will be rated at 2A @ 30 VDC.

The control panel shall accommodate, within the cabinet, an optional local-energy city-tie/polarity reversal combination module or an optional dual-line digital dialer capable of transmitting all alarms/troubles in either SIA, Contact ID, 10/20 BPS or pager format.

The control panel shall include individual trouble indicators for NAC 1, NAC 2, battery, ground, signals silenced, common alarm, common trouble and AC on. The control panel shall also include controls for trouble silence, signal silence, system reset and lamp test. The switch to put the panel into the programming mode or walk test mode shall only be accessible by a qualified installer. Indicators shall always be visible and the user controls shall only be accessible once the locked cabinet door is opened. Access to batteries and system components shall be user restricted by complete dead-front construction.

The panel shall include programmable options for a 60 sec. silence inhibit period, water flow silence inhibit, automatic NAC silence and silent/audible one-man walk test. All panel programming shall be done using the front panel controls and indicators. Program data shall be stored in non-volatile memory that retains the information when all power is removed from the panel. The panel shall also include an event buffer that is installer accessible so that the last 20 events can be reviewed.

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**MODUL-R MR-2605 5 Zone Conventional Fire Alarm Control Unit**