

Manufactured in Canada by: Secutron Inc.  
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Local Service Representative

Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 System Model: MR-401 Fire Alarm Control Panel  
 System Type: Local, Auxiliary (using MR-2300-PR), Remote Station (using MR-2300-PR),  
 Central Station, Proprietary Protected Premise Unit, where PPU is neither  
 co-located with, nor integral with the supervising station (NFPA 72)  
 Type of Service: A, M, WF, SS  
 Type of Signalling: Non-Coded, Marching Time  
 Applicable Standards: NFPA 70, 72, CAN/ULC-S559, UL-864, ULC S524, CAN/ULC-S527 and  
 ULC-S536  
 Installation Environment: Indoor use only/ dry environment

**WARNING:** THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

**AVERTISSEMENT:** CE POSTE EST MUNI D'UNE FONCTION DE VÉRIFICATION D'ALARME QUI ENTRAÎNERA UN RETARD DU SIGNAL D'ALARME DU SYSTÈME DANS LES CIRCUITS INDIQUÉS. LE RETARD TOTAL (POSTE DE CONTRÔLE PLUS LES DÉTECTEURS DE FUMÉE) NE DOIT PAS DÉPASSER 60 SECONDES. AUCUN AUTRE DÉTECTEUR DE FUMÉE NE DOIT ÊTRE RELIÉ À CES CIRCUITS (ZONES) SAUF SUR APPROBATION DE L'AUTORITÉ COMPÉTENTE LOCALE.

**WARNING:** RADIO FREQUENCY FROM TRANSMITTING DEVICES MAY IMPAIR INTENDED OPERATION OF THE CONTROL UNIT. MAINTAIN A MINIMUM OF 30 CM BETWEEN TRANSMITTING DEVICES AND CONTROL UNIT.

**AVERTISSEMENT :** LES RADIOFRÉQUENCES ÉMISES PAR LES DISPOSITIFS DE TRANSMISSION PEUVENT NUIRE AU FONCTIONNEMENT PRÉVU DU POSTE DE CONTRÔLE. MAINTENIR UNE DISTANCE D'AU MOINS 30 CM ENTRE LES DISPOSITIFS DE TRANSMISSION ET LE POSTE DE CONTRÔLE.

**OPERATING INSTRUCTIONS**

**Normal:** Indicators are Off except for green A.C. light. FACP shows trouble after power-up until "system reset" pressed. **Alarm:** Flashes red when alarm in queue. Buzzer sounds steady. Once all alarms reviewed LED illuminates steady. Resetting panel clears indication and turns LED off. **Supervisory:** Flashes yellow at Fast Flash Rate when Latching or Non-Latching Supervisory circuit activated. Buzzer sounds at fast rate. Pressing button cycles list of active supervisory alarms from oldest to newest. Once all alarms are reviewed LED illuminates steady. If all Non-Latching Supervisory circuits are restored and no Latching Supervisory Circuits are active, indication clears and LED turns off. Resetting panel clears activation of any Latching Supervisory Alarms, clears indication and turns LED off. **Trouble:** Flashes yellow when any trouble condition is detected. Buzzer sounds at slow rate. Pressing button cycles list of active troubles from oldest to newest. Once all troubles in queue are reviewed LED illuminates steady. Clearing all Trouble conditions clears indication and turns LED off. **BLDG Monitor:** Flashes yellow at Trouble Flash rate when any Monitor condition is detected. Buzzer sounds at fast rate. Pressing button cycles through a list of active Monitor Conditions from oldest to newest. Once all conditions in the queue have been reviewed LED illuminates steady. Clearing all Monitor conditions clears indication and turns LED off. **System Reset:** System Reset button resets FACP and all Circuits. Pressing System Reset button causes a trouble to occur and LED illuminates steady yellow. Resetting System clears indication and turns LED off. **Acknowledge - Two Stage and PAS Only:** Flashes yellow at Fast Flash Rate as Auto General Alarm Timer is timing. Illuminates steady yellow by pressing Acknowledge or Signal Silence buttons and cancelling the Auto General Alarm Timer. Expiring of Auto General Alarm Timer causes Panel to enter General Alarm, clears indication and turns LED on. For Positive Alarm Sequence (PAS) the Acknowledge button must be pressed within 15 seconds of the signal, refer to LT-6670SEC. **General Alarm:** LED illuminates steady red when General Alarm button is pressed, a General Alarm Initiating Circuit activates or Auto General Alarm Timer expires. Resetting System clears indication and turns LED off. **Signal Silence:** Flashes yellow at Trouble Flash rate when Indication Circuits are silenced. Any Subsequent Alarms cause Signals to resound, clears indication and turns LED off. Pressing Signal Silence button when Panel is in Alarm turns on Signal Silence Indicator and deactivates any Silenceable Indicating Circuits. Non-Silenceable Circuits are unaffected. Signals re-sound upon any subsequent Alarm. **Additional Two Stage Function:** If the Auto General Alarm Timer has not expired, Signal Silence button also performs same function as Alarm Acknowledge button. **Buzzer Silence:** Flashes yellow at Trouble Flash rate when Buzzer Silence button is pressed. Any new alarm, supervisory or trouble events resounds buzzer and causes LED to turn off. **Visual Indicator Test:** Press and holding the Visual Indicator Test button illuminates all front panel LEDs on steady and turns the buzzer on steady. If Visual Indicator Test is active for more than 10 seconds, Common Trouble activated. **Fire Drill:** Illuminates steady yellow during active Fire Drill. Pressing Fire Drill button activates all programmed and non-Disconnected Indicating Circuits. Does not transmit any Alarms via City Tie, or Common Alarm Relay. Fire Drill may be programmed to operate specific Indicating Circuits. Fire Drill is cancelled by pressing the button again (toggle switch), or if Panel goes into a real Alarm. **Note:** Test all indicators regularly.

**SYSTEM LIMITATIONS: DO NOT EXCEED POWER SUPPLY RATINGS, ALL CIRCUITS ARE SUPERVISED AND POWER LIMITED WHERE APPLICABLE**

**NAC Circuits:** 4 supervised Class B indicating circuits, configured as strobes or audibles. Terminals are labeled as "NAC 1", "NAC 2", "NAC 3" and "NAC 4". Rating Power limited / Regulated 24V FWR / 1.5A @ 49C per circuit. Max NAC power allowed 6.0A (1.5A max per circuit).

**Addressable Loops:** Terminals are labelled "Loop A" and "Loop B" on Main Board. Power Limited 24VDC/350mA, for wiring info refer to manual.

**Aux Supply:** Terminals are labelled as "AUX 1". Power limited / 24VDC regulated / 500mA max.

**Resettable Aux Supply:** Terminals are labelled as "AUX 2". Power limited / 24VDC regulated / 300mA max.

**Unfiltered Supply:** Terminals are labelled "UNFLTD". Special Application 24V FWR/1.7A max.

**Aux. Relay Contacts:** Terminals are labelled "AUX. RLY, ALRM RLY, SUPV RLY, TRBL RLY" on Main Board. All are Form C, 28VDC/1A max.

Must be connected to a Listed Power Limited Source of Supply.

**RS-485 Interface:** Terminals are labelled "RS-485". Power Limited 300mA.

**Polarity Reversal:** Terminals are labelled "POLARITY REVERSAL" on MR-2300-PR. Power Limited / 24VDC open / 12VDC at 3.5mA / 8mA max(shorted).

**City Tie:** Terminals are labelled "CITY TIE" on MR-2300-PR. Power Limited / 24VDC unfiltered / 270mA max / 13.7 or 14.4 ohm trip coil.

**BATTERY MAINTENANCE:** The two 12 VDC sealed lead-acid batteries should be replaced after each period of 3 to 5 years of normal service. If the Battery Trouble indicator activates, obtain required service.

SYSTEM CONFIGURATION	
Electrical Ratings	120VAC 60Hz/240VAC 50Hz, 10A slow blow micro in-line, fuse, not field replaceable
Battery Fuse:	Not field replaceable
Signal Silence Inhibit:	<input type="checkbox"/> None <input type="checkbox"/> 10s <input type="checkbox"/> 20s <input type="checkbox"/> 30s <input type="checkbox"/> 1 minute
Automatic Sig Silence Period:	<input type="checkbox"/> None <input type="checkbox"/> 5 <input type="checkbox"/> 10 <input type="checkbox"/> 15 <input type="checkbox"/> 20 <input type="checkbox"/> 30 minutes
Manual Signal Silence:	<input type="checkbox"/> No (disabled) <input type="checkbox"/> Yes (enabled)
City Tie: Disconnectable	<input type="checkbox"/> No <input type="checkbox"/> Yes
Stage Select:	<input type="checkbox"/> Single Stage <input type="checkbox"/> Two Stage <input type="checkbox"/> Positive Alarm Sequence
Waterflow:	<input type="checkbox"/> No <input type="checkbox"/> Yes Zone # _____
Power Supply:	10 A maximum

1) Enter Detector Data here; the delay (power-up) (start-up) time marked on the installed Smoke Detector(s), or on their installation wiring diagram(s) is to be used.

Circuit (Zone)	Control Unit Delay Seconds	Smoke Detector	
		Model	Delay, Seconds (1)

Use of Product – "Commercial" and "Protected Premise Control Unit"

The Customer must suitably frame and place this label adjacent to the Fire Alarm Control Panel.

Installation Manual is LT-6670SEC  
 NP-8114SEC Rev 1  
 Dec. 2023