SIEMENS FS-RD2-R Remote LCD Display Annunciator Instruction Manual

SIEMENS

INSTALLATION INSTRUCTIONS
Model FS-RD2/-R
REMOTE LCD ANNUNCIATOR

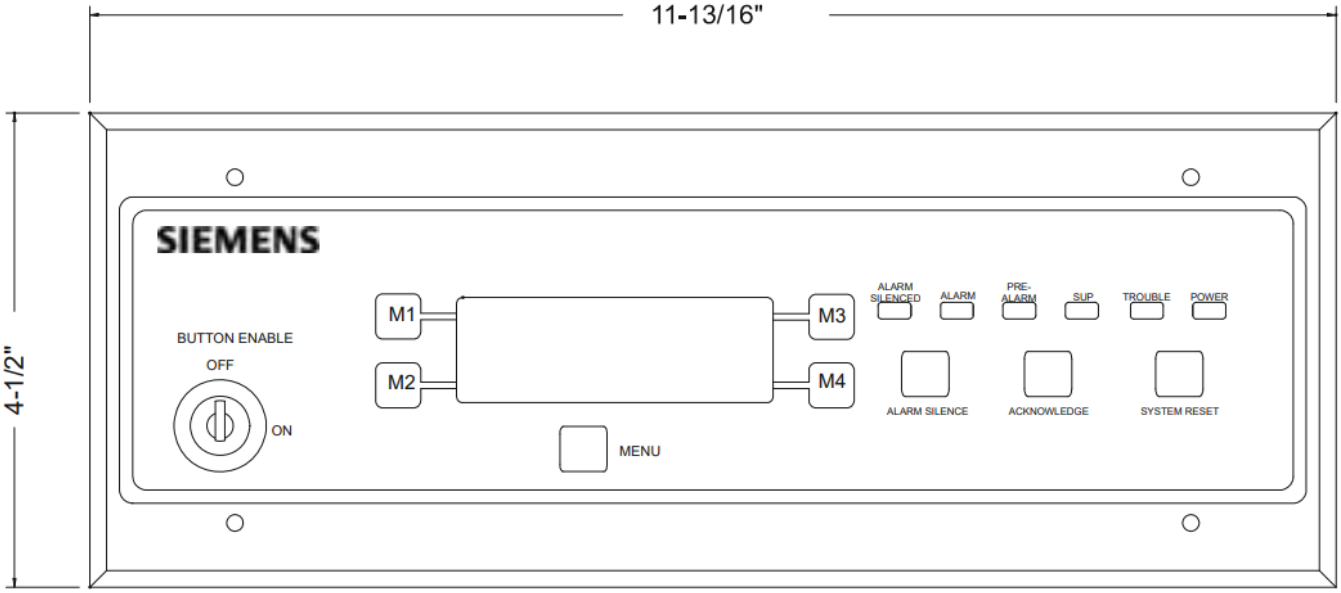
Contents

FS-RD2-R Remote LCD Display Annunciator

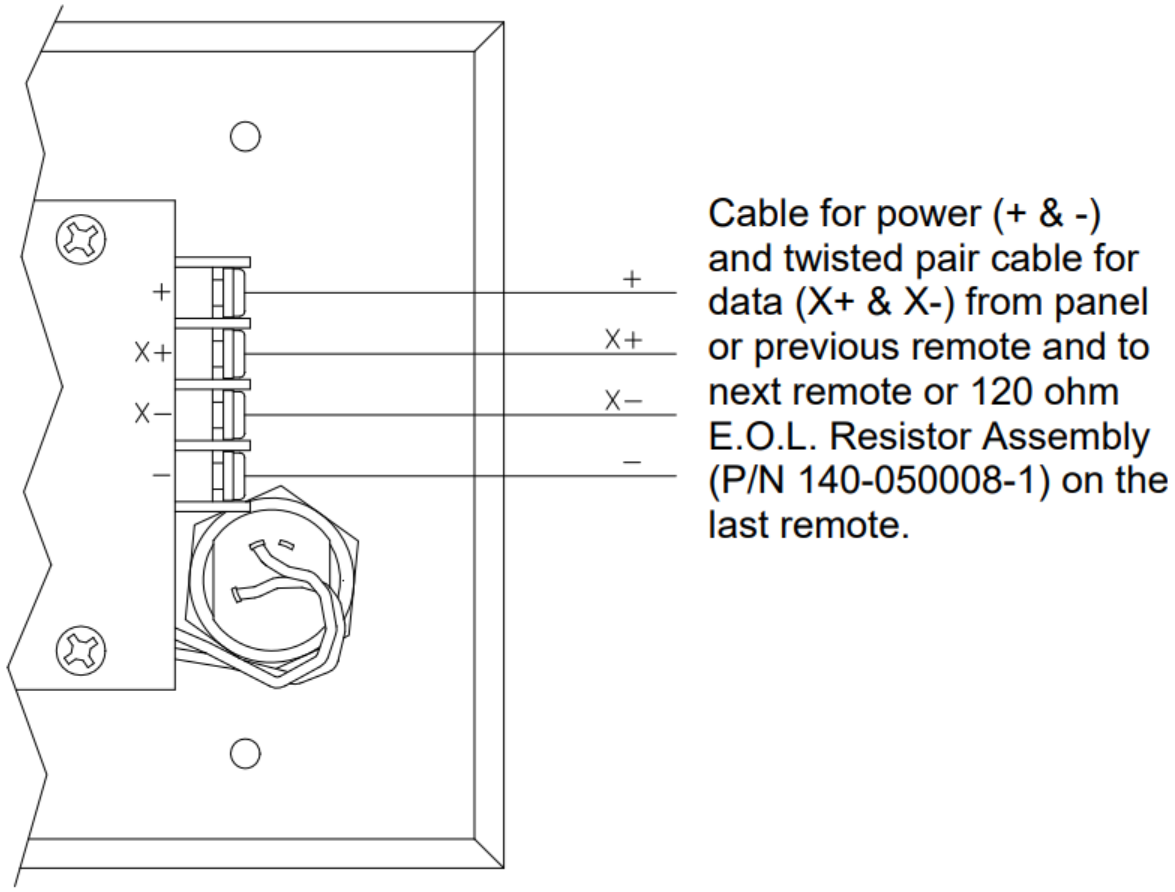
The FS-RD2 Remote LCD Annunciator is an optional accessory for the FS-250 Fire Alarm System Control Panel. The FS-RD2 is black and the FS-RD2-R is red. The FS-RD2/-R provides a 4×20 character LCD display along with the system status LEDs that display the event status of the system. The enable keyswitch allows system reset, trouble silence/acknowledge, alarm silence and menu access for partial system control. The lamp test operation is also enabled by the keyswitch and is limited to the annunciator. The annunciator mounts to a horizontally mounted 6-gang box, 2” deep minimum. The FS-RD-SB/-R Surface Backbox may be used for surface mounting. The FS-RD-SB is black and the FS-RD-SB-R is red.

PARTS SUPPLIED

1 FS-RD2/-R Remote LCD Annunciator
4 Mounting Screws
1 Instruction Sheet
1 Operating Instructions



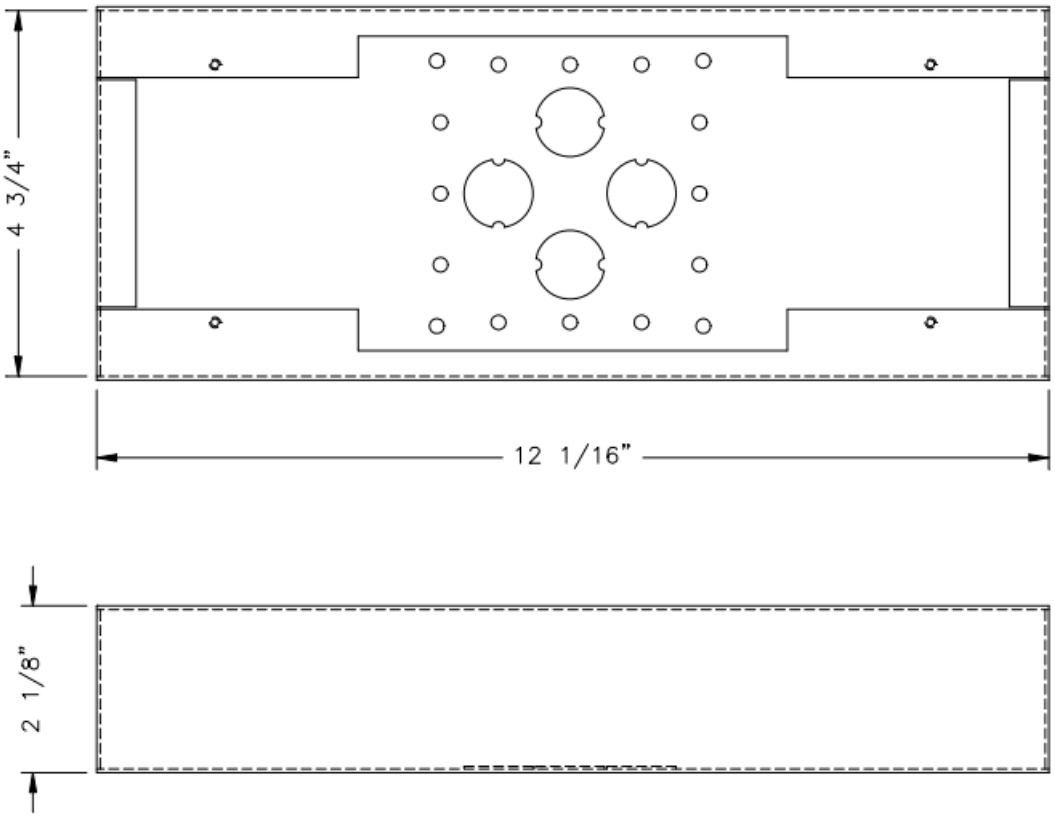
FS-RD2/-R DIMENSIONS



FS-RD2/-R WIRING
Power Limited and Supervised

Step 1.) Installation is to be done by qualified personnel who have thoroughly read and understood this instruction sheet.
Step 2.) Disconnect BATTERY and AC prior to working on equipment.
Step 3.) Mount 6-gang backbox horizontally as required.
Step 4.) Set dip switch for proper remote address (see page 2).
Step 5.) Attach conduit and run wires as required.
Step 6.) Connect IN wires from fire alarm system control unit or previous remote as required.
Step 7.) Connect OUT wires to next remote or 120 ohm E.O.L.
Resistor Assembly (P/N 140-050008-1), if last remote.

Step 8.) Attach unit to backbox, using four mounting screws.
Step 9.) Apply power to system.
Step 10.) Check for proper operation of functions.

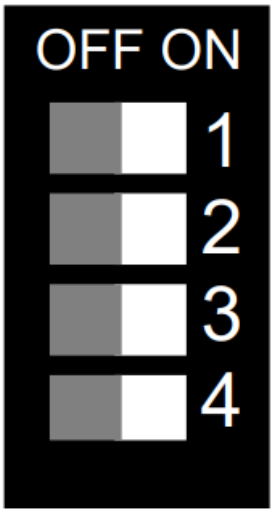


FS-RD-SB/-R DIMENSIONS

Notes:

1. Units to be installed in accordance with all local codes.
2. T-Tapping is not allowed! Communication wiring must be daisy chained from remote to remote.
3. Terminal block will accept a maximum of 12 AWG wiring and minimum of 18 AWG.
4. Use twisted pair cable with a characteristic impedance of approximately 120 ohms. 4000 feet maximum distance from panel to last remote.

FS-RD2/-R ADDRESS SWITCH SETTING
The following table shows the address dip switch settings for the FS-RD2/-R.



Address	Switch 1	Switch 2	Switch 3	Switch 4
1	On	On	On	On
2	Off	On	On	On
3	On	Off	On	On
4	Off	Off	On	On
5	On	On	Off	On
6	Off	On	Off	On
7	On	Off	Off	On
8	Off	Off	Off	On
9	On	On	On	Off
10	Off	On	On	Off
11	On	Off	On	Off
12	Off	Off	On	Off
13	On	On	Off	Off
14	Off	On	Off	Off
15	On	Off	Off	Off
16	Off	Off	Off	Off

The following table gives the currents necessary for power supply and battery calculations.

Model	Input Voltage Type & Designation	Input Current		Frequency	Ripple Voltage
		Normal Standby	Maximum (Alarm)		
FS-RD2/-R	Filtered 24 V DC	0.048 A	0.085 A	N/A	N/A

CONTROLS AND INDICATORS

The FS-RD2/-R has a sounder, 6 LEDs, 1 LCD display, 4 navigational push buttons (M1-M4), 4 dedicated push buttons and a keyswitch.

The LEDs operate as follows:

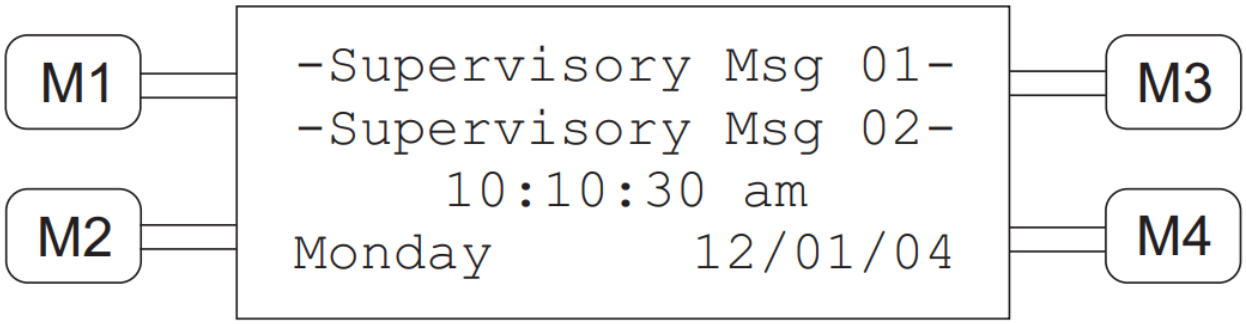
POWER (Green)	Normally ON (steady) – indicates that power is applied to the FS-RD2/-R. OFF indicates that the FS-RD2/-R is not powered up.
TROUBLE (Yellow)	Normally OFF – indicates that there is no trouble event in the system. ON (flashing) – indicates that at least ONE trouble event is unacknowledged. ON (steady) – indicates that ALL trouble events have been acknowledged.
SUPERVISORY (Yellow)	Normally OFF – indicates that there is no supervisory event in the system. ON (flashing) – indicates that at least ONE supervisory event is unacknowledge d. ON (steady) – indicates that ALL supervisory events have been acknowledged.
PRE-ALARM	Normally OFF – indicates that there is no pre-alarm condition in the system. ON (flashing) – indicates that at least ONE pre-alarm event is unacknowledged. ON (steady) – indicates that ALL pre-alarm events have been acknowledged.
ALARM (Red)	Normally OFF – indicates that there is no alarm event in the system. ON (flashing) – indicates that at least ONE alarm event is unacknowledged. ON (steady) – indicates that ALL alarm events have been acknowledged.
ALARM SIL (Yellow)	Normally OFF – indicates that NACs are in the OFF state if the system is in nor mal supervisory mode. If any event is present, it indicates that the silenceable NACs are in the OFF sta te. ON (steady) – indicates that at least one silenceable NAC has been activated.

The sounder operates as follows:
SOUNDER
Normally OFF – indicates that the system is in supervisory mode or all events in the system have been acknowledged.
ON (steady) – indicates that at least ONE unacknowledged alarm is present in the system.
ON (pulsing) – indicates that at least ONE unacknowledged non-alarm (trouble, supervisory or pre-alarm) event is present in the system.

The pushbutton operates as follows:

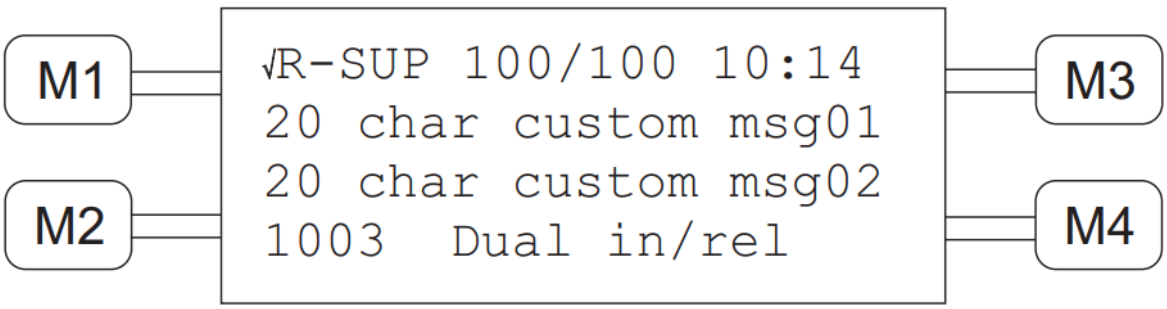
BUTTON ENABLE	This keyswitch must be in the ON position to activate the pushbutton. The keys can only be removed in the OFF position.
RESET	When pressed, initiates a system reset.
ACKNOWLEDGE	When pressed, acknowledges all events that are unacknowledged.
ALARM SILENCED	When pressed, silences all the activated silenceable NACs.
MENU	When pressed, gives access to USER menu to allow panel control to generate GENERAL ALARM, ALERT, DRILL and VIEW HISTORY (refer to the FS-250 Owner's Manual, P/N 315-049353).
M1 – M4	These pushbuttons are used for navigation while in the USER screen. If events are present in the system, M3 (UP button) is used to scroll up to the next event and M4 (DOWN button) is used to scroll to the previous event, M1 (TOP button) is used to place the list at the top of the queue and M2 (NEXT QUE) is used to go to the next queue (if present) of lower priority.

The LCD operates as follows:
Supervisory Mode:
Line 1 – First Custom Message and System ID
Line 2 – Second Custom Message and System ID
Line 3 – Current Time
Line 4 – Day and Date

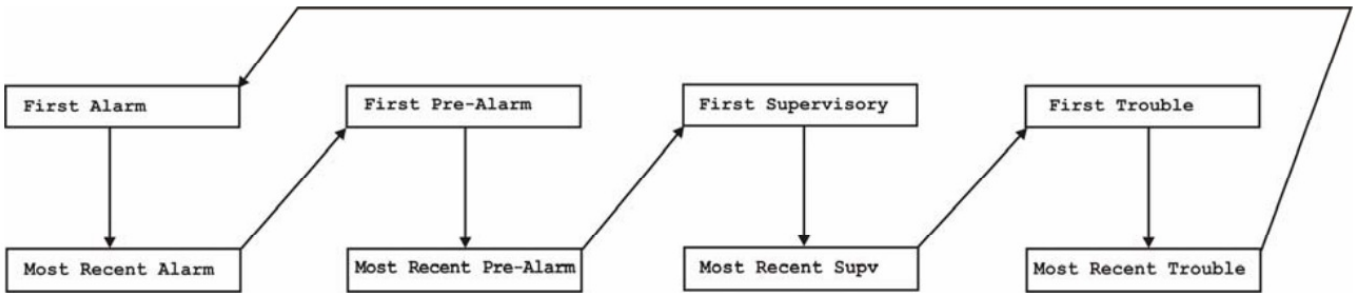


Active Event Mode:

Line 1 – Acknowledged or unacknowledged event, Event type, Event location in the list and time the event occurred.
Line 2 – First 20 character custom message.
Line 3 – Second 20 character custom message.
Line 4 –Address of the device where the event occurred and a generic description of the device or trouble type.

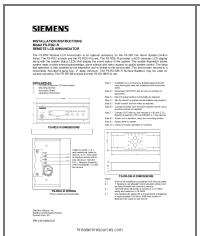


The events are displayed one at a time and cycle through a circular list once the first event or last event message is reached.



EVENT PRIORITY

Documents / Resources

	SIEMENS FS-RD2-R Remote LCD Display Annunciator [pdf] Instruction Manual FS-RD2-R, FS-RD2-R Remote LCD Display Annunciator, Remote LCD Display Annunciator, LCD Display Annunciator, Display Annunciator, Annunciator

References

- Fire Alarm Resources | Download fire alarm documents