FEATURES

- UL Listed, File S425
- CSFM Listed, #7170-0065:127
- Used in the MPC-2000 System Control Unit
- Dual supervised and power limited data transmission circuits
- Capacity for driving up to (4) remote annunciator / controller / driver units per circuit, (2) circuits total
- Capable of working wire distances up to 2000 ft. per circuit
- True multiplex format allows total flexibility in wire routing to and between remote units
- Compatible with MPC - 2000 systems using 3.100 software or higher
- RS-232 interface for computer serial port connection
- IBEW/USA Crafted

MADE IN USA

DESCRIPTION

The SI-3 (401366) Serial Interface is a serial communication driver. The SI-3 provides a means of connecting remote displays and or control units to the MPC-2000 Fire Alarm System Control Unit. Many different device units can be connected to the SI-3. The following supported units are:

RDC-700A Thirty-Two Character Remote Annunciator
RDC-800 Eighty Character Remote Annunciator
D700 Series LED / Incandescent Directory Annunciators
G700 Series LED / Incandescent Graphic Annunciators
R710 Series Remote Control Relay Units.

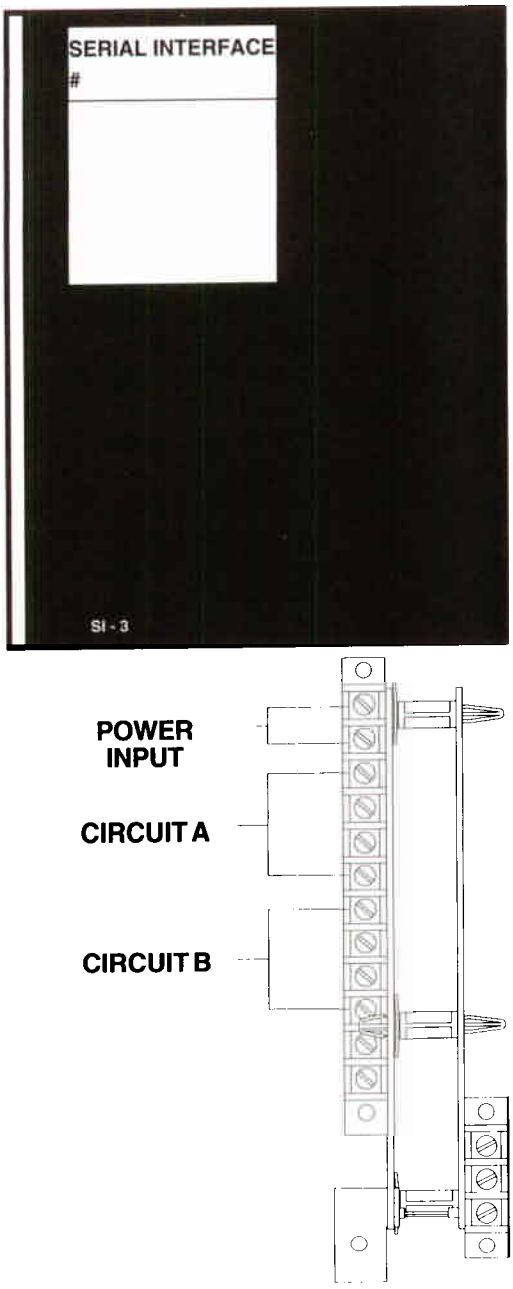
The SI-3 module provides (2) power limited and supervised four line data / power links for interfacing system data to remote units. Up to (8) remote annunciator / controller / driver units in any combination may be used. Wiring cable should consist of two twisted pair #20 gauge. Total cable length should not exceed 2000 ft. Power for the SI-3 module should be attained from an AP-4 power supply.

The SI-3 comes with four empty IC sockets. These sockets, (U1 thru U4) are provided to allow the installation of options LM-3 (401376) Addressable Loop Message EEPROM and/or CM-104 Conventional Message EEPROM. One LM-3 chip is required for every three addre1ssable loops requiring custom messages. The CM-104 must be purchased if 1 or up to 104 conventional zone messages are required. U9 provides a RS-232 interface along with the TB1 terminal block together they allow custom messages to be loaded into the EEPROMs by using a remote computer and SME-1 DOS Editor.

TECHNICAL DATA

Power Consumption:	.331 Amp in Alarm
Power Consumption:	.195 Amp in Standby
Space Consumption:	(2) Module Spaces
Channel Consumption:	(1) Module on the Parallel Channel

Note: The RDC-800 is compatible with MPC-2000 systems using 3.100 software or higher.



SI-3 MODULE

ORDERING

Order #	Catalog #	Description
401366	SI-3	Serial Interface Board
401376	LM-3	Addressable Loop Message Chip
401377	CM-104	Conventional Loop Message Chip
401378	SME-1	Message Editor Software
401367	RDC-800-S	80 Character Remote Display/Controllers, Stainless
401367-0-14	RDC-800-R	80 Character Remote Display/Controllers, Red

FARADAY

TYPICAL WIRING FOR PARALLEL CHANNEL MODULE
CAT. NO. SI-3/ PART NO. 401366 SERIAL INTERFACE and ACCESSORY
CAT. NO. RDC-800/ PART NO. 401367 REMOTE DISPLAY/CONTROLLER

POWER CONSUMPTION REQUIREMENTS:
SI-3
ALARM - .331 AMP.
NORMAL - .195 AMP.
RDC-800 (EACH)
ALARM - .065 AMP.
NORMAL - .055 AMP.

SPACE REQUIREMENTS:
MODULE - 2
TRANSFORMER - 0

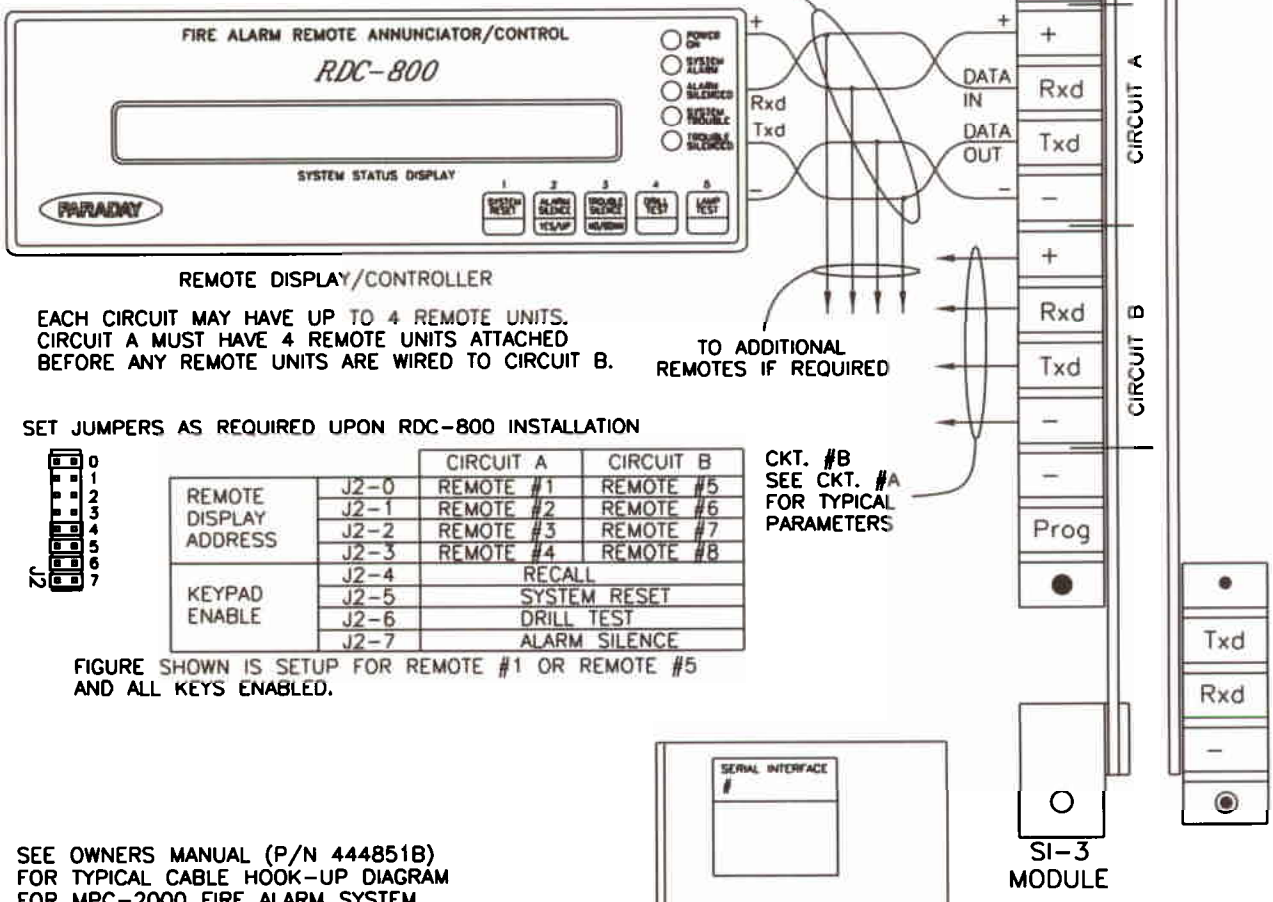
INTERNAL CONTROL PANEL CONNECTION WIRING

INPUT:
SI-3 MODULE POWER
FROM MP-3 OR AP-4 NON-RESETTABLE
POWER SUPPLY 24 VDC
SEE NOTE 1

SUPERVISED

EXTERNAL FIELD WIRING CONNECTIONS
SUPERVISED, POWER LIMITED
TWO TWISTED PAIR, #20 GA. MIN. WIRE
TOTAL CABLE LENGTH NOT TO EXCEED 2000 FT.

RDC-800 UNITS TO BE MOUNTED IN
STANDARD 5 GANG ELECTRICAL OUTLET BOX



REMOTE DISPLAY/CONTROLLER

EACH CIRCUIT MAY HAVE UP TO 4 REMOTE UNITS.
CIRCUIT A MUST HAVE 4 REMOTE UNITS ATTACHED
BEFORE ANY REMOTE UNITS ARE WIRED TO CIRCUIT B.

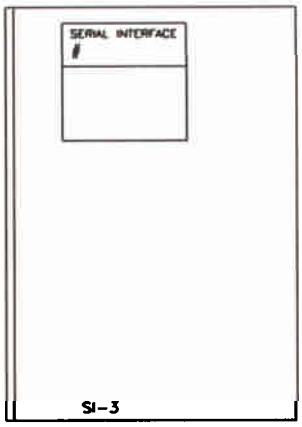
TO ADDITIONAL REMOTES IF REQUIRED

CKT. #B
SEE CKT. #A
FOR TYPICAL
PARAMETERS

SET JUMPERS AS REQUIRED UPON RDC-800 INSTALLATION

		CIRCUIT A	CIRCUIT B
REMOTE DISPLAY ADDRESS	J2-0	REMOTE #1	REMOTE #5
	J2-1	REMOTE #2	REMOTE #6
	J2-2	REMOTE #3	REMOTE #7
	J2-3	REMOTE #4	REMOTE #8
KEYPAD ENABLE	J2-4	RECALL	
	J2-5	SYSTEM RESET	
	J2-6	DRILL TEST	
	J2-7	ALARM SILENCE	

FIGURE SHOWN IS SETUP FOR REMOTE #1 OR REMOTE #5
AND ALL KEYS ENABLED.



FRONT COVER LABEL

SI-3
MODULE

SEE OWNERS MANUAL (P/N 444851B)
FOR TYPICAL CABLE HOOK-UP DIAGRAM
FOR MPC-2000 FIRE ALARM SYSTEM
PARALLEL CHANNEL

NOTE 1.) A MINIMUM WIRE SIZE OF 14 AWG MUST
BE USED FOR INTERNAL CONTROL
PANEL CONNECTION WIRING.

TYPICAL WIRING FOR PARALLEL CHANNEL MODULE CAT. NO. SI-3/ PART NO. 401366 SERIAL INTERFACE and ACCESSORIES R710 SERIES REMOTE RELAY or D700 / G700 SERIES REMOTE ANNUNCIATOR

POWER CONSUMPTION REQUIREMENTS:
SI-3
ALARM - .331 AMP.
NORMAL - .195 AMP.

SPACE REQUIREMENTS:
MODULE - 2
TRANSFORMER - 0

INTERNAL CONTROL PANEL CONNECTION WIRING

INPUT:
SI-3 MODULE POWER
FROM MP-3 OR AP-4 NON-RESETTABLE POWER SUPPLY 24 VDC
SEE NOTE 1

FROM MPC-2000 CONTROL UNIT
MP-3 OR AP-4
REGULATED POWER SUPPLY
17-28 VDC, 3.0 Amp. MAX./ZONE
ANNUNCIATOR MODULE
SUPERVISED

SUPERVISED, POWER LIMITED
TWO TWISTED PAIR,
#20 GA. MIN. WIRE
TOTAL CABLE LENGTH NOT TO EXCEED 2000 FT.

SUPERVISED

EXTERNAL FIELD WIRING CONNECTIONS

R710 SERIES SERIAL RELAY CONTROL UNIT, D701/D702 SERIES SERIAL REMOTE ANNUNCIATOR OR G703/G704 SERIES SERIAL REMOTE ANNUNCIATOR

+
Rxd
Txd
-

DATA IN
DATA OUT

CIRCUIT A
CIRCUIT B

\+ \+ Rxd Txd - \+ Rxd Txd - - Prog ◎

o Txd Rxd - ◎

EACH CIRCUIT MAY HAVE UP TO 4 REMOTE UNITS. CIRCUIT A MUST HAVE 4 REMOTE UNITS ATTACHED BEFORE ANY REMOTE UNITS ARE WIRED TO CIRCUIT B.

TO ADDITIONAL REMOTES IF REQUIRED

SET JUMPERS AS REQUIRED UPON REMOTE RELAY OR ANNUNCIATOR INSTALLATION

J2: 0 1 2 3 4 5 6 7

		CIRCUIT A	CIRCUIT B
REMOTE DISPLAY ADDRESS	J2-0	REMOTE #1	REMOTE #5
	J2-1	REMOTE #2	REMOTE #6
	J2-2	REMOTE #3	REMOTE #7
	J2-3	REMOTE #4	REMOTE #8
SWITCH ENABLE	J2-4	RECALL	
	J2-5	SYSTEM RESET	
	J2-6	DRILL TEST	
	J2-7	ALARM SILENCE	

CKT. #B SEE CKT. #A FOR TYPICAL PARAMETERS

NOT USED FOR REMOTE RELAY CONTROL UNITS

FIGURE SHOWN IS SETUP FOR REMOTE #1 OR REMOTE #5 AND ALL SWITCHES ENABLED.

SEE OWNERS MANUAL (P/N 444851B) FOR TYPICAL CABLE HOOK-UP DIAGRAM FOR MPC-2000 FIRE ALARM SYSTEM PARALLEL CHANNEL

NOTE 1.) A MINIMUM WIRE SIZE OF 14 AWG MUST BE USED FOR INTERNAL CONTROL PANEL CONNECTION WIRING.

SERIAL INTERFACE #

SI-3 MODULE

SI-3

FRONT COVER LABEL

Loop Message Chip P/N's
For Addressable Loops use Cat. No. LM-3 Part No. 401376
For Conventional Loop use Cat. No. CM-104 Part No. 401377