PVC-RMI

Intelligent Remote Mic

The PVC-RMI Remote Mic Interface is mounted in a remote cabinet. The PVC-RMI expands the ability to Page and control conventional PVX system functions from multiple remote locations. The PVC-RMI operates as the host for remote PVC-SL8 switch banks as well as the PVC-IL8 input and PVC-OL8 output interface cards. It communicates these functions to the system via the RS-485 interface.

The PVC-RMI has an address DIP switch which determines the device address on the RS-485 loop. This address switch is set between 1 and 31. A maximum of 31 RMI units may be wired together. SW1 is turned "on" at the last device to mark that device as the "end of line".

LED 1 is the Status LED. It flashes Green during normal standby condition to show that the device is operational. LED 1 will be Green steady when the Microphone PTT button is engaged and the unit is asserting the audio line. LED 1 will flash Amber to indicate a Fault condition on this device.

LED 2 is the In Use indicator. It will be Red steady when another device is asserting the audio line. The primary PVX 25/50/100 will always have highest priority. It will override any other PVC-RMI as long as its MIC PTT is activated. If there are multiple RMIs in the system, the first to activate its MIC PTT will assert the audio line. When its MIC PTT is released another may activate.

SL8 LEDs: On the Switch/LED card utilized with the PVC-RMI, LEDs will indicate Steady Red for Paging, Flashing Red for Alarm. MNS Messages will indicate Green on any associated Zone.

Installation:

Installer must insure that all wiring and devices installed in system meet the following standards: National Electrical Code (NFPA 70) / NFPA Standard 72

Models: PVC-RM8 (8 switches) / PVC-RM16 (16 switches) Configurations with up to 128 switches available

Mounting: The PVC-RMI is intended to mount within the PVC-RM8/16 cabinet on stand-offs. For PVC-RM24 - PVC-RM128 mounting of components will be within a CAB102 with a windowed door.

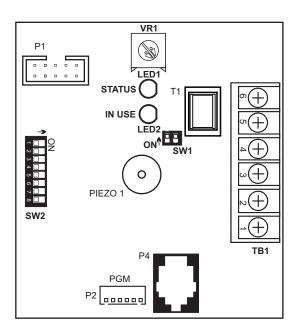


Fig. 1 - Board Layout

LED1: Status

GREEN flash = device active GREEN solid = unit is asserting the audio line Amber Flash = fault

LED2: In Use

Illuminated Red when audio line is being asserted by another active device

SW1: EOL SW1-1: "ON" to set as last device SW1-2: "ON" to set as last device

SW2: 1-5 Address Switch Set 1st device as "1", 2nd as "2", etc. See Page 4 for Addressing SW2: 6-8 Do not Use Factory use only

VR1: Mic Gain

Clockwise to increase The PVC-RMI current consumption is drawn **TB1:** Class B Style 4 TB1-1: Circuit Neg TB1-2: +24VDC TB1-3: Audio -TB1-4: Audio + TB1-5: RS 485 -TB1-6: RS 485 +

P1: I2C Port Out 10 Pin Connector. out to PVC-SL8

P2 programming port

P4 microphone socket

PIEZO1: Sounds during fault condition

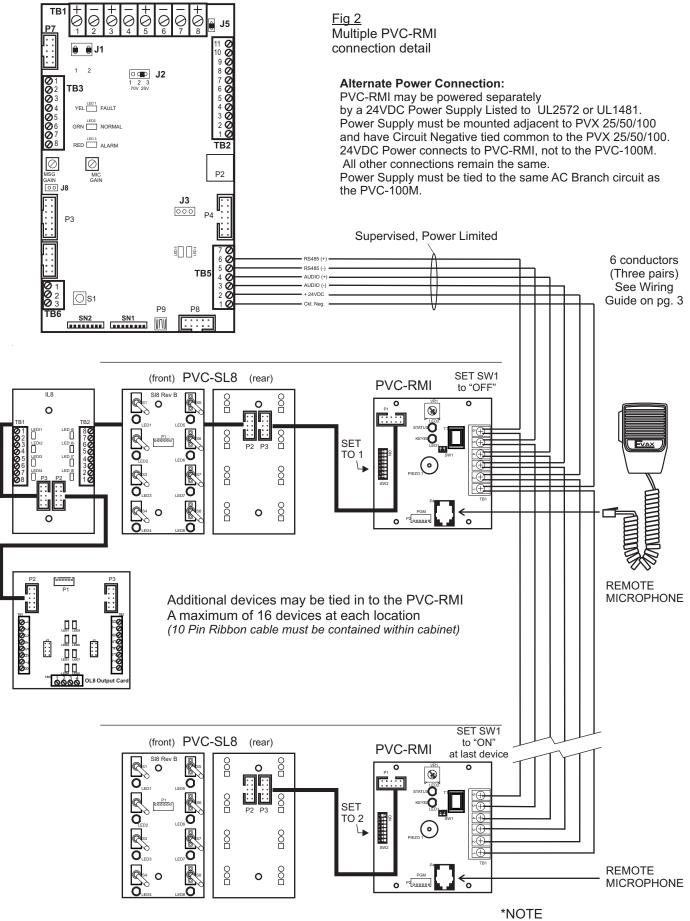
SPECIFICATIONS Power: VDC +24V Current Draw: 12mA standby 36.5mA active



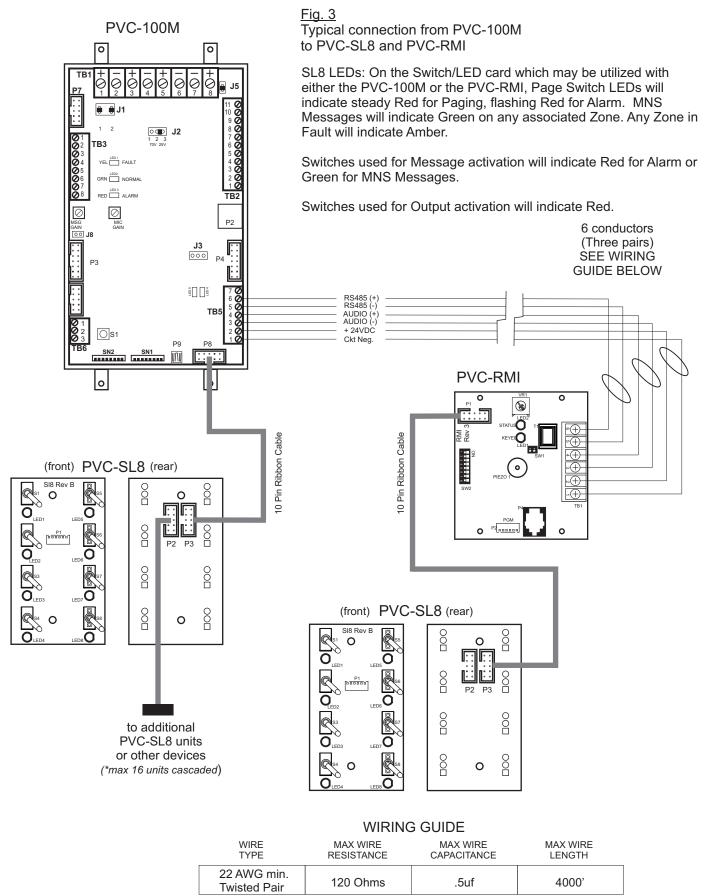
from an PVC-100M. The current consumption of the RMI and the additional intelligent devices will increase that amplifiers battery draw.

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For technical assistance please call: 866-956-1211 5757 Phantom Dr. St. Louis, Missouri 63042 www.pottersignal.com



Maximum number of PVC-RMI units to be cascaded: 31



Wire for 24 VDC pair must be sized to insure no more than a 20% drop in voltage at the last device

PVC-RMI PVC-RMI Addressable Switch Settings

1	ON 1 2 3 4 5 6 7 8	11	ON 1 2 3 4 5 6 7 8	21	ON 2 2 3 4 5 6 7 8
2	ON 1 2 3 4 5 6 7 8	12	ON 1 2 3 4 5 6 7 8	22	ON 2 3 4 5 6 7 8
3	ON 2 3 4 5 6 7 8	13	ON 2 3 4 5 6 7 8	23	ON 2 3 4 5 6 7 8
4	ON CALL 2 3 4 5 6 7 8	14	ON 1 2 3 4 5 6 7 8	24	ON 1 2 3 4 5 6 7 8
5	ON 2 3 4 5 6 7 8	15	ON 2 3 4 5 6 7 8	25	ON V V V V V V V V V V V V V V V V V V V
6	ON 1 2 3 4 5 6 7 8	16	ON 1 2 3 4 5 6 7 8	26	ON 1 2 3 4 5 6 7 8
7	ON 1 2 3 4 5 6 7 8	17	ON 1 2 3 4 5 6 7 8	27	ON 1 2 3 4 5 6 7 8
8	ON 1 2 3 4 5 6 7 8	18	ON 2 3 4 5 6 7 8	28	ON 1 2 3 4 5 6 7 8
9	ON 1 2 3 4 5 6 7 8	19	ON 2 3 4 5 6 7 8	29	ON 2 3 4 5 6 7 8
10	ON 1 2 3 4 5 6 7 8	20	ON 1 2 3 4 5 6 7 8 S	30	ON 2 2 3 4 5 6 7 8



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SW2

ON

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