

INSTALLATION MANUAL: LOC-1000 LOCAL OPERATOR CONSOLE

NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the LOC-1000 module. All terminals are power limited and should be wired in accordance with the requirements of NFPA 70 (NEC) and NFPA 72 (National Fire Alarm Code). Failure to follow the wiring diagrams in the following pages will cause the system to not operate as intended. For further information, refer to the control panel installation instructions. The module shall only be installed with listed control panels. Refer to the control panel installation manual for proper system operation.

1. DESCRIPTION

The LOC-1000 is a local operator console which is utilized to locally control the system, generate live voice and ECS. The LOC-1000 communicates in conjunction with the IPA-4000V using a RS-485 connection via P-Link. It also provides common indication of Alarms, Supervisory, Trouble and other system status and control functions. A maximum of thirty-one (31) LOC-1000 can be employed.

The LOC-1000 is equipped with three (3) modules ; LOC-RA6500R, SB-8 and VM-1000.

The LOC-RA6500R is a remote annunciator that provides common indication for Alarms, Supervisory, Trouble and other system status and control functions. The board connects in conjunction with the IPA-4000V using a 4-wire RS-485 connection via P-Link. Alternatively, the LOC-RA6500R can communicate and receive power from a PSN-1000. The LOC-1000 is equipped with a bracket to securely mount an optional PSN-1000 power supply.

The SB-8 is the user interface for ECS control and events. It provides 8 programmable buttons, an All Call button and an ECS Reset and Control button. The SB-8 also includes LED indicators for Ready to Page, Trouble, Control Requested, Remotely Controlled and Locally Controlled. Each of the 8 programmable buttons have two corresponding LEDs to indicate activity and trouble conditions.

The VM-1000 is the voice module that generates live voice and ECS to remote amplifiers. The VM-1000 connects to the LOC-RA6500R using a 4-wire RS-485 connection via P-Link.

2. SETTING THE ADDRESS

The LOC-RA6500R and VM-1000 address is set by a five (5) position dip switch, which is used to program the device address ranging from one (1) to thirty-one (31). NOTE - LOC-RA6500R and VM-1000 devices will not have the same address.

FIGURE 1. DIP SWITCH SETTINGS TABLE (ADDRESSES 1-31)

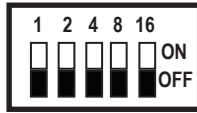
	1	2	4	8	16		1	2	4	8	16
1	Gray	White	White	White	White	17	Gray	White	White	White	White
2	White	Gray	White	White	White	18	White	Gray	White	White	White
3	Gray	White	White	White	White	19	Gray	White	White	White	White
4	White	White	Gray	White	White	20	White	White	Gray	White	White
5	Gray	White	White	White	White	21	White	Gray	White	White	White
6	White	Gray	White	White	White	22	Gray	White	White	White	White
7	Gray	White	White	White	White	23	White	White	White	Gray	White
8	White	White	White	Gray	White	24	White	White	White	Gray	White
9	Gray	White	White	White	White	25	Gray	White	White	White	White
10	White	Gray	White	White	White	26	White	Gray	White	White	White
11	Gray	White	White	White	White	27	Gray	White	White	White	White
12	White	White	Gray	White	White	28	White	White	Gray	White	White
13	Gray	White	White	White	White	29	Gray	White	White	White	White
14	White	Gray	White	White	White	30	White	Gray	White	White	White
15	Gray	White	White	White	White	31	Gray	White	White	White	White
16	White	White	White	White	Gray						

Note: Each “gray” box indicates that the dip switch is “On,” and each “white” box indicates “Off.”

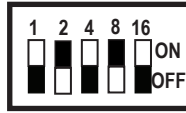
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The examples shown below illustrate a P-Link's dip switch settings: the 1st example shows a P-Link module *not addressed* where all dip switch settings are in the default "Off" position, the 2nd illustrates an *addressed P-Link module* via the dip switch settings.

FIGURE 2. EXAMPLES OF P-LINK MODULE SHOWING DEFAULT DIP SWITCH SETTING (UNADDRESSED) & ADDRESSED



All dip switches are shown in the "Off" position.



Example shows this P-Link module address = 10. Dip switches #2 & 8 are in the "On" position.

3. TECHNICAL SPECIFICATIONS

Standby Current	77 mA
Alarm Current	107 mA
Maximum Wire Length	6500 FT
Maximum Number of LOC-1000	31
Wire Gauge	14AWG – 22AWG
Operating Temperature Range	32° to 120° F (0° to 49°C)
Operating Humidity Range	10% to 93% (non-condensing)

4. INSTALLATION

FIGURE 3. LOC-1000 WIRING CONNECTIONS

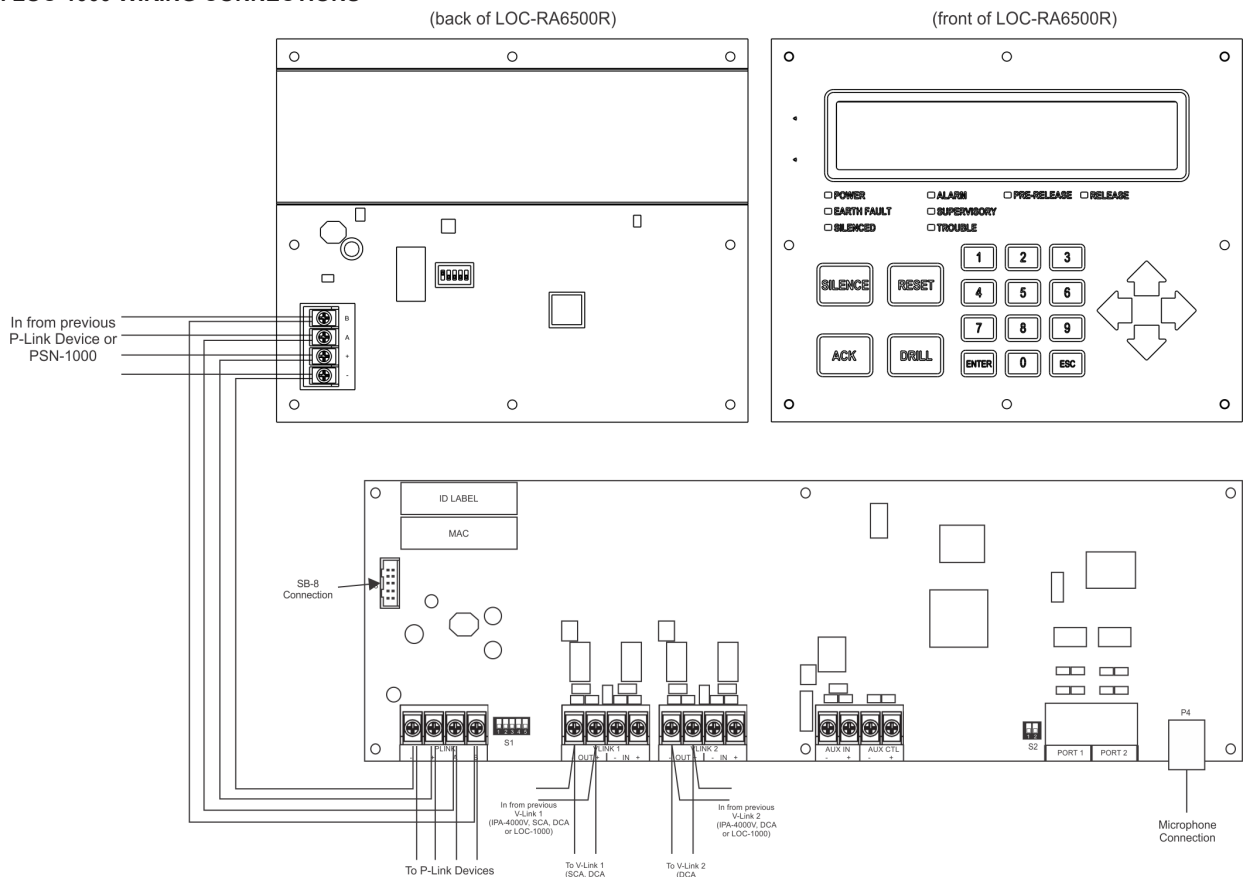


FIGURE 4. P-LINK CLASS B WIRING

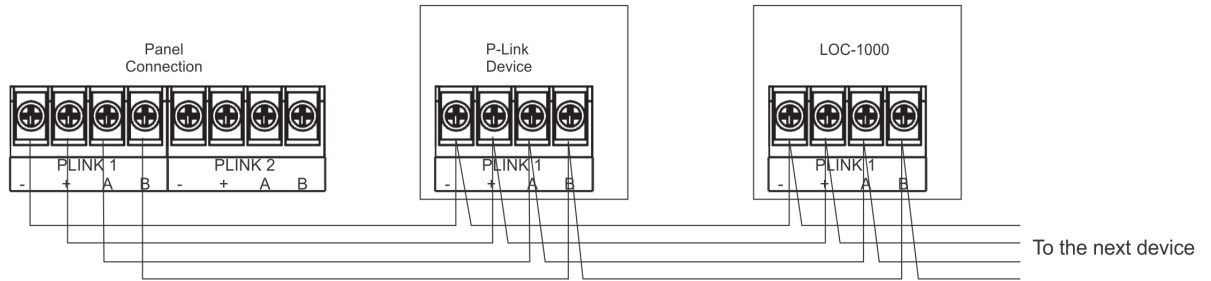


FIGURE 5. P-LINK CLASS A WITING

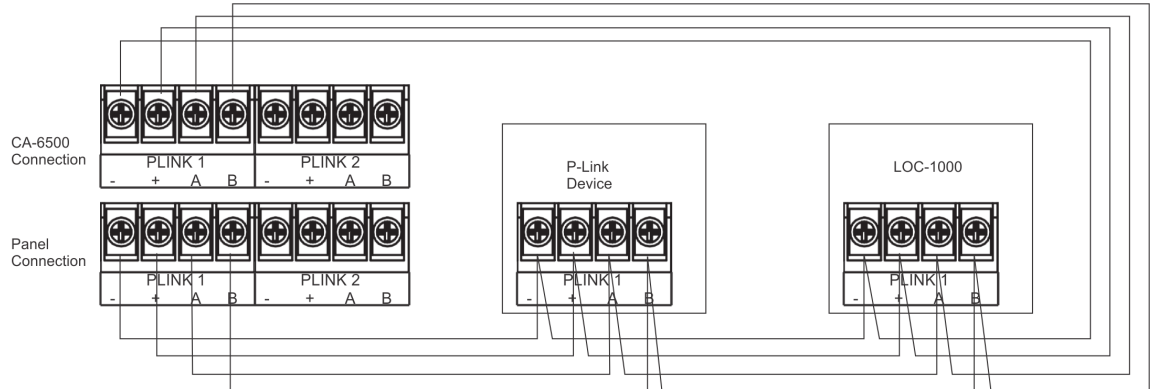
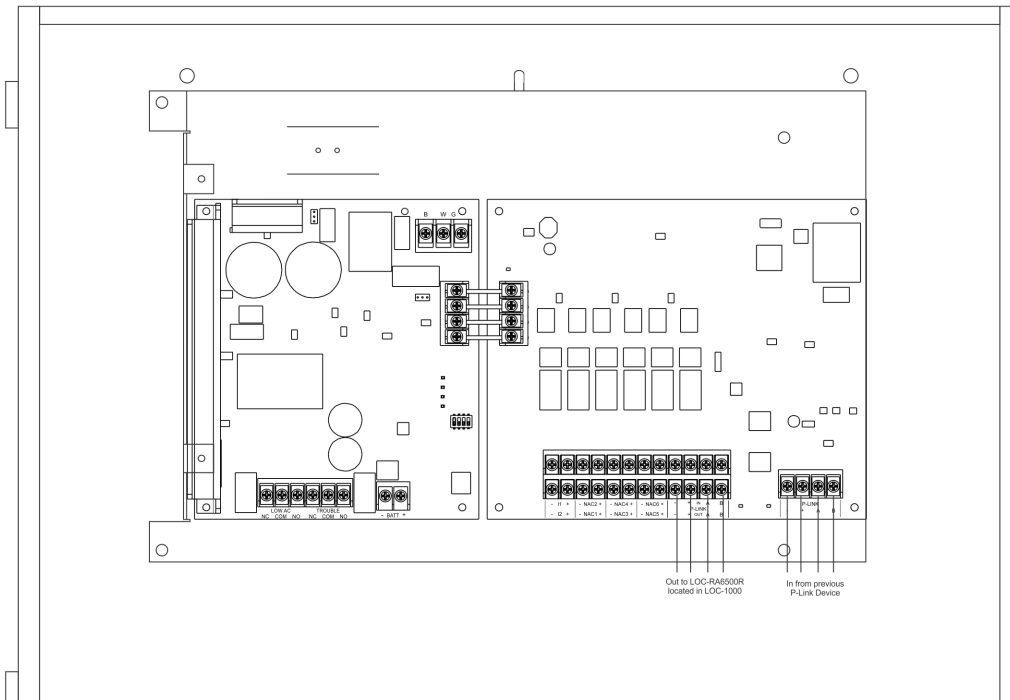


FIGURE 6. OPTIONAL PSN-1000 INSTALLATION



A LOC-PSN1000 can be mounted in the upper portion of the LOC-1000 cabinet to provide additional power. The LOC-PSN1000 is an intelligent 10 amp power supply and P-Link repeater. Reference the PSN-1000(E) manual for additional technical and operational information,

ECS Reset	When the RESET button is pressed, all active ECS events will relinquish.
CTRL	When the CTRL button is pressed, this allows operator consoles to request control of the system when a remote operator console is in use.
Control Requested	A steady amber LED indicates a LOC-1000 is requesting control of the system.
Remotely Controlled	A steady amber LED indicates a remote operating console is currently in control.
Locally Controlled	A steady red LED indicates the local operating console is currently in control.

FOR SERVICE, CONTACT:

NAME: _____

COMPANY: _____

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