

# DIGIPLEX EVO



Listen-In Substation  
DGP-SUB1



paradox.com  
PRINTED IN CANADA - 10/2006  
DGPSUB1-EI01

## Technical Specifications

Power Input	11 to 14V DC, 100 mA Max.
Power Indicator	Red Backlight LED Under Each Button.
Page Indicator	Red Page LED
Mute Indicator	Red Mute LED
Combus Fault Indication	No Indication
Tamper Switch	Yes
Microphone	Yes
Speaker	3", 3 Watts, 8Ω Speakers.
Volume Control	From 3% to 100%
Compatibility	DGP-LSN4 Module
Audio Quality	22 Khz, 16 Bits (22 Khz, 8 Bits if the DGP-LSN4 is using the phone line). High Noise Immunity (Differential Audio)

Specifications may change without prior notice.

## Connections

Connect the Listen-In Substation as detailed in *Figure 1*. Options referring to specific substations will affect the substation connected on that port. Once you have connected the Substation, make sure that the unit is closed, as it will prevent using buttons on the substation. Use one twisted pair for [MK+] and [MK-] and another for [SP+] and [SP-].

## Checklist

When adding a new substation to an existing Listen-In module installation, there are some programming section that have to be modified for the new substation. See the programming guide for further information.

### Substation Partition Assignment

Sections [001] to [004].  
Assign a substation to a partition.

### Substation Anti-Tamper Switch

Section [006] Option [1] to [4]  
Determines if the anti-tamper switch will be activated or not.

### Substation 1 to 4 Page Options

Sections [009] to [012] Options [1] to [4]  
Determines which substations can be paged from a particular substation.

### Substation Panic Button Option

Section [013] Option [1] to [8]  
Enable and select the type of panic (Police, Medical or Fire) that is linked on a substation's panic button.

### Substation Panic Audible Feedback

Section [014] Option [1] to [4]  
Toggles audible feedback following the generation of a panic from a substation, even if the option to generate panics was not enabled in the panel.

### Substation Partition Status

Sections [020] to [023]. Options [1] to [8]  
Substation will play status of the partitions.

### Mute Schedule

Section [038] to [041]  
The DGP-LSN4 uses the holiday settings of the EVO panel.

Table 1: Mute Schedules

	Start Time	End Time	Days (1 to 8)
Schedule A	___ : ___	___ : ___	S M T W T F S H
Schedule B	___ : ___	___ : ___	S M T W T F S H

## Secondary Substation Connection

It is possible to connect additional substations that would act as separate speakers for the primary substation to which it would be connected. No special functions would be available and it would follow the status of the primary substation concerning the mute or background music functions.

The primary substation is the one with the MK+ and MK- wires connected. Do not connect the MK+ and MK- wires on secondary substations. You can connect secondary substations in different ways. When connecting extra substations, consider the power supply limitations. The Listen-In module uses 60mA and each substations uses 100mA.

The maximum number of substations that should be connected to the DGP-LSN4 module is 12 (4 primary, 8 secondary substations), to a maximum of 3 per substation connectors (1 primary substation, 2 secondary substations).

### Substation Secondary Connection

You can connect a secondary substation to another substation. See *Figure 2* for more information. In that type of connection, the length of wire usable is divided by the number of substations when no additional power supplies are used. For example, if you connect one secondary substation in that manner, the total length of wire can only be 76m(250ft) (152m(500ft) divided by the total number of substation (2)).

### Listen-In Module Secondary Connection

You can connect a secondary substation directly to the Listen-In connectors. See *Figure 5* for more information. Connect the secondary substation like you would connect the primary substation except for the [MK+] and [MK-] wires. With that kind of connection, the maximum length of wire is 152m(500ft) for each substation.

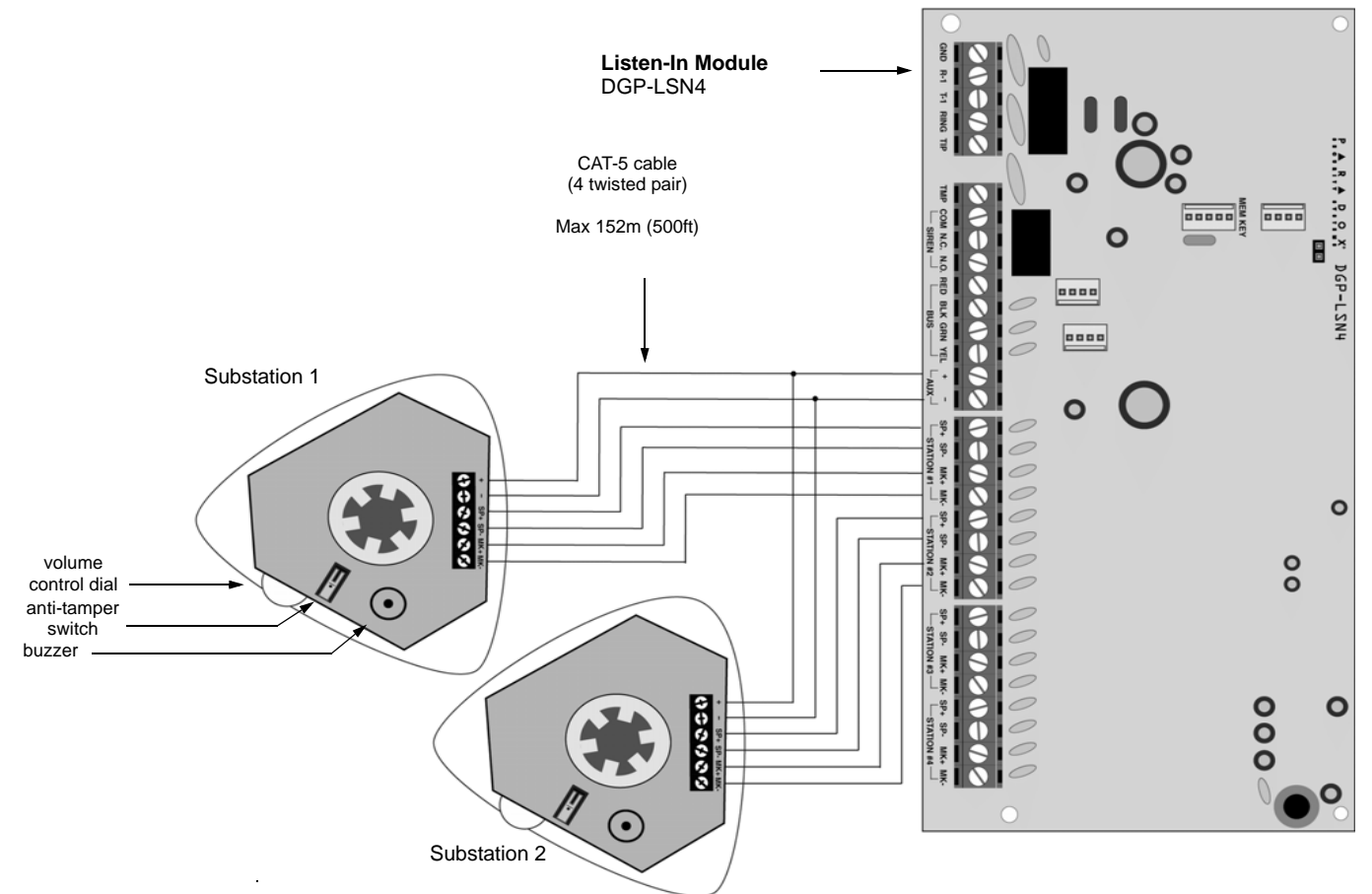
### Additional Power Supplies

It is possible to connect extra power supplies to primary substations to allow for additional substations to be installed. See *Figure 3 and 4* for more information. Secondary substations must always get their power from the primary substation's power supply. When using an additional power supply, the substation connected to it can be installed to a maximum of 152m(500ft) from the power supply and 600m(2000ft) from the Listen-In module.

### Secondary Substation Functionalities

A secondary substation follows the primary substation's settings. If the primary substation is muted, the secondary substation will be muted, if the music is on for the primary substation, it will be on for the secondary substation. The panic and page options are unavailable for the secondary substations and the microphone is disabled. You will be able to control the volume at the secondary substations independently.

Figure 1: Substation Connection



**!** Since the microphone for secondary substations is disabled, it is recommended to install primary substation in an area that would allow it to pick up any sound in the area to improve continuous recording and the Listen-In and Two-Way communications.

Table 2: Maximum Lengths of Wire

Number of Substations on a single run of wires	No Extra Power Supply. Connecting Through the Previous Substations. See Figure 2.	Power Supply with Secondary Substation Connected on the Primary Substation. See Figure 3.	Power Supply with Secondary Substation Connected on the Primary Substation and Power Supply. See Figure 4.	Three Substations Connected on the Listen-In Module. See Figure 5.
	Total length of wire from the source to the last substation connected on that run of wires.			
1	152m(500ft) from module.	600m(2000ft) from module. 152m(500ft) from power supply.	600m(2000ft) from module. 152m(500ft) from power supply.	152m(500ft) from module.
2	76m(250ft) from module.	600m(2000ft) from module. 152m(500ft) from power supply.	600m(2000ft) from module. 152m(500ft) from primary substation. 152m(500ft) from power supply.	152m(500ft) from module.
3	50m(160ft) from module.	600m(2000ft) from module. 152m(500ft) from power supply.	600m(2000ft) from module. 152m(500ft) from primary substation. 152m(500ft) from power supply.	152m(500ft) from module.

# Substation Connection Examples

Figure 2

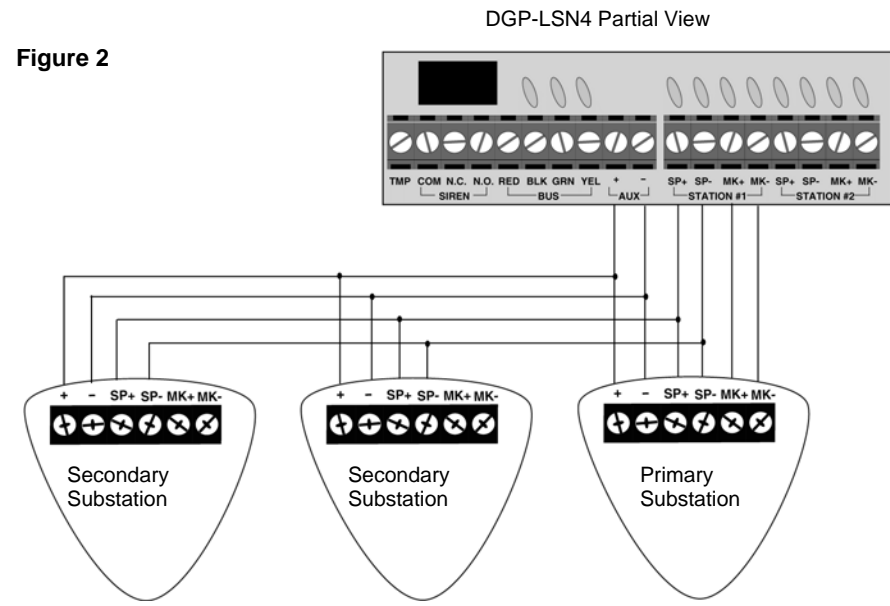


Figure 5

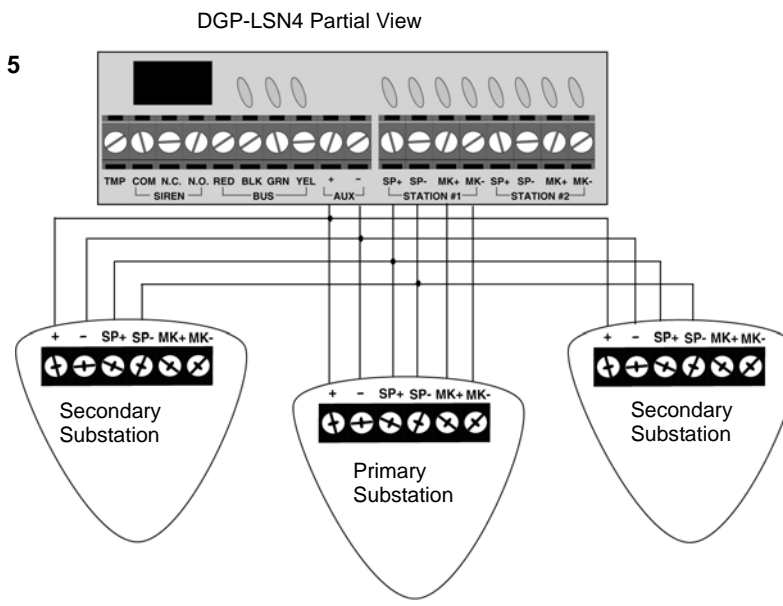


Figure 3

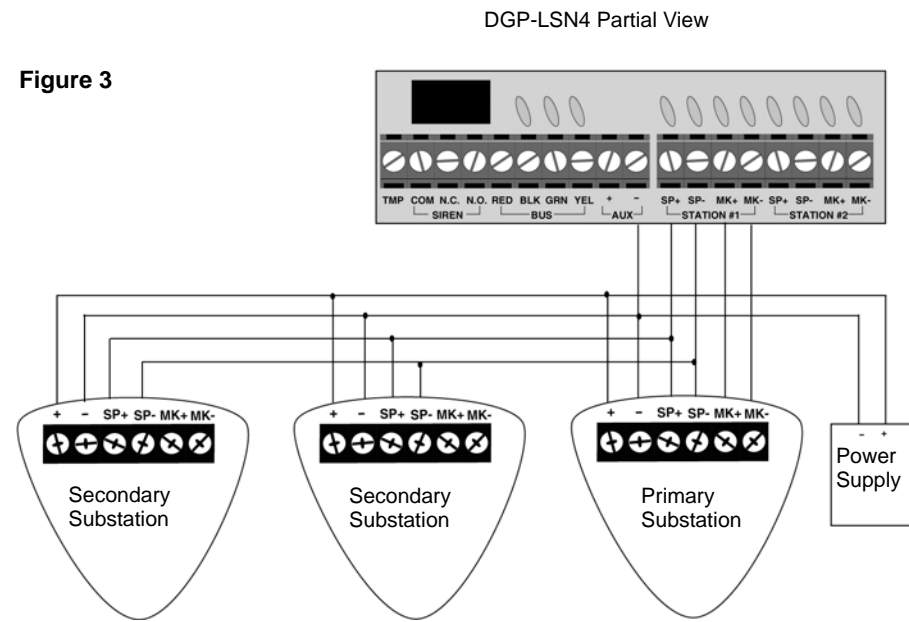


Figure 4

