

Honeywell EVS-INT50W Internal Amplifier Instruction Manual

Home » Honeywell » Honeywell EVS-INT50W Internal Amplifier Instruction Manual





internal Amplifier **Product Installation Document**

Contents

- 1 Description
- 2 Board Layout
- 3 Installation
- 4 Wiring
- **5 Setting the Device**

Address

- 6 Speaker Wiring
- 7 Documents / Resources
 - 7.1 References
- **8 Related Posts**

Description

The EVS-INT50W Internal Amplifier is used to amplify the audio message for distribution throughout the facility for the Emergency Voice System.

The EVS-INT50W Internal Amplifier can fit inside the 5820XL-EVS or 6820EVS cabinets.

1.1 Compatibility

The EVS-INT50W is compatible with the following Silent Knight Series FACPs. For more information, refer to the FACP Installation Manual or the EVS Series Manual (PN:LS10062-001SK-E).

- 6820EVS
- 5820XL-EVS

1.2 Specifications

- Standby Current: 52mA
- EVS-INT50W only Alarm Current @ 25V: 275mA; @ 70V: 310mA
- Full Alarm load current @ 25V: 2840mA; @ 70V: 2900mA

Board Layout

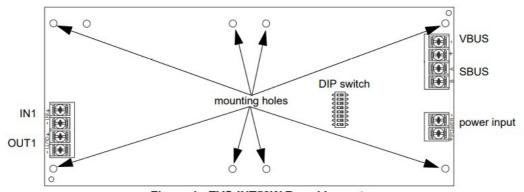


Figure 1 EVS-INT50W Board Layout

Installation

NOTE: Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances. To mount the , refer to the following steps.

- 1. Remove AC power and disconnect backup batteries from the main control panel.
- 2. To mount the EVS-INT50W inside the FACP cabinet below the main board (above the batteries), align the board with the mounting holes and secure the board to the enclosure with the eight supplied screws.

Wiring

4.1 FACP Wiring

See Figure 2 to properly wire the to the FACP. The Internal Amplifier must be powered by a NAC programmed as Constant Auxiliary Power. Refer to the FACP Installation Manual.

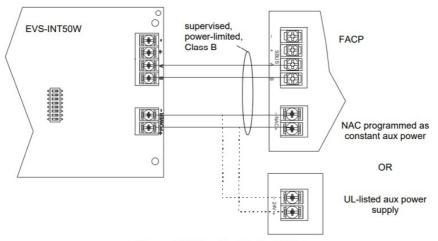


Figure 2 Wiring the Tto the FACP

4.2 VBUS Wiring

The VBUS is an analog voice bus that carries the recorded voice messages from the EVS-VCM to the EVS-

INT50W amplifiers, or the voice messages generated from a system microphone to the EVS-INT50W. The maximum resistance on the VBUS is 20W.

Connect the VBUS from the EVS-VCM to the EVS-INT50W amplifiers as shown in Figure 3.

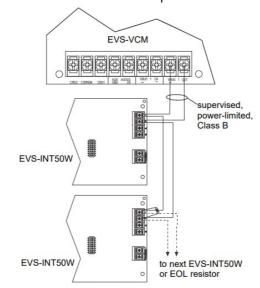


Figure 3 VBUS Wiring for EVS-VCM to EVS-INT50W

Setting the Device Address

Use the onboard DIP switches to select an ID number for the EVS-INT50W. Refer to Figure 4 to see how to set the DIP switches for the desired ID number. Once the ID number is set, add the EVS-INT50W to the system through panel programming. Note that Address 0 is an invalid number and cannot be used.

NOTE: The EVS-INT50W is powered by a NAC on the FACP or by an auxiliary power supply. It will not be found using JumpStart AutoProgramming.

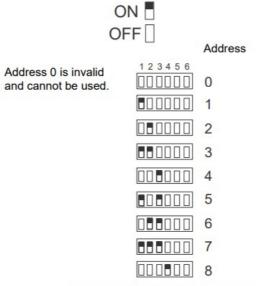


Figure 4 DIP Switch Settings

Speaker Wiring

Each EVS-INT50W supplies one circuit for speaker connection. The speaker circuit can be supervised and wired for Class B or Class A. The speaker circuit is capable of 50 watts of power at 25 Vrms or 70.7 Vrms. Refer to the Silent Knight Device Compatibility Document P/N LS10167-004SK for compatible speakers.

Number Of Speakers		Total Load		Wire Distance in Feet			
@ ½ W	@1W	Vrms	Watts	18 AWG	16 AWG	14 AWG	12 AWG
10	5	25Vrms	5W	3900	6200	9860	15680
		70Vrms		25000	39700	63200	100520
20	10	25Vrms	10W	2125	3380	5375	8540
		70Vrms		15200	24150	38400	61100
30	15	25Vrms	15W	1460	2320	3690	5870
		70Vrms		11000	17500	27800	44200
40	20	25Vrms	20W	1100	1750	2780	4420
		70Vrms		8500	13510	21500	34175
52	26	25Vrms	26W	760	1200	1920	3050
		70Vrms		6100	9700	15400	24520
80	40	25Vrms	40W	550	875	1390	2200
		70Vrms		4100	6500	10360	16480
100	50	25Vrms	50W	450	715	1130	1800
		70Vrms		3500	5560	8850	14070

Table 1 Wire Lengths

NOTE: The above table assumes a uniform distribution of the speakers, and that a max of 20% voltage drop on the last speaker is allowed.

Figure 5 illustrates how to wire speakers to the control panel using Class B or Class A supervision.

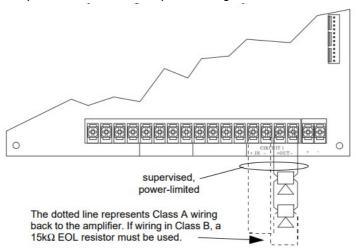


Figure 5 Speaker Configurations

12 Clintonville Road Northford, CT 06472-1610 203.484.7161

www.silentknight.com

LS10120-001SK-E | D | 02/22 ©2022 Honeywell International Inc.

Documents / Resources



<u>Honeywell EVS-INT50W Internal Amplifier</u> [pdf] Instruction Manual EVS-INT50W Internal Amplifier, EVS-INT50W, Internal Amplifier, Amplifier

References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.