

DVS-25(P) / DVS-50(P) Voice Evacuation Control Panel



Description

The DVS Series Voice Evacuation Control Panel (VECP) contains a state-of-the-art 25 or 50 Watt high efficiency digital power amplifier for use in life safety applications. The DVS-25(P) and DVS-50(P) are packed with options to enhance the voice evacuation package and to significantly increase the ease of installation.

Features such as supervised internal microphone, low current draw, undistorted 25 or 50 Watt sine power, standard digital message unit and four speaker circuit outputs make the DVS-25(P) or the DVS-50(P) the ideal choice for critical life safety applications. Sixty seconds of pre-recorded voice messages can be programmed into the digital message unit. These messages can be activated by either 24 VDC polarity reversing or dry contact input.

A built-in auxiliary audio input allows the DVS to interface to telephone paging systems increasing the functionality of the system and adding to the value offered to the end-user. Additional non-fire emergency messages can be added to the system and used to alert building occupants of conditions such as weather alerts, chemical spills and gas leaks. Custom programmed messages and alert tones are also available upon request.

Diagnostic meter bars which indicate speaker load or signal levels on the audio channels, plug in terminal connections and an installer's system test button make the DVS one of the most installer friendly panels on the market. SigCom's intelligent overload protection feature limits the output power to a maximum preset level, thus protecting the panel without disconnecting the load and disabling the evacuation system.

DVS Series Voice Evacuation Control Panels are uniquely designed and equipped to comply with the requirements of UFC 4-021-01: Design and O&M for Mass Notification Systems. Mass Notification is the ability to provide real-time information to all building occupants and all persons within the immediate vicinity of the building during emergency situations. The overriding intent of these systems is to reduce the risk of mass casualty by providing a timely means of hazard notification and then instruction on how to respond. In order to give response instructions both pre-recorded and live voice messaging is required.

Features

- Compatible with all FACPs
 - Conventional & Addressable
- 25 or 50 Watts of Audio Power
- 4 Supervised Speaker Circuits
 - Class A or B, Field Selectable
- 25 or 70 VRMS Speaker Circuits, Field Selectable
- Output Level Indication
- Activation via Voltage or Contact Closure
- 60 seconds of Pre-recorded Voice Messaging
 - Fire & Weather Emergencies Standard
- Auxiliary Audio Input
- System Test Button
- Enclosure Mounts Surface or Semi-Flush
 - Field Reversible Cabinet Hinge



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Specifications

Listings:	UL, CSFM			
Output Power:	25 Watts [DVS-25(P)] 50 Watts [DVS-50(P)]			
		Standby	Alarm	Battery Saver
Operating Current @ 24 VDC:	25 Watt	0.21 A	1.50 A (max)	0.08 A
	50 Watt	0.21 A	2.75 A (max)	0.08 A
Operating Voltage:	24 VDC Nominal			
Frequency Response:	250-4200 Hz			
Microphone:	Supervised, Internal w/PTT Switch			
Digital Message Capacity:	60 Seconds			
Message Select Inputs:	Two 24 VDC Reverse Polarity (NAC) Inputs (A & B) Two Contact Closure Inputs (1 & 2)			
Speaker Circuits:	4 Class A or B, Field Selectable			
Speaker Circuit Output:	25 Watts maximum per Circuit			
Speaker Circuit Voltage:	25 or 70 VRMS, Field Selectable			
Speaker Circuit EOLR:	10K			
Cabinet Dimensions:	15 3/4" h x 20" w x 5" d			
Cabinet:	Red Surface or Semi-Flush Mount Enclosure w/Field Reversible Cabinet Hinge			

Engineer & Architect Specification

The Voice Evacuation Control Panel (VECP) shall be a Signal Communications Corporations Model DVS-25(P), DVS-50(P) or approved equal. The system shall be UL Listed as an emergency voice alarm/communications system. The VECP shall be microprocessor based and shall employ a high efficiency Class "D" amplifier, which shall provide undistorted 25(50) Watt sine power. The VECP shall include an integral digital message repeater capable of storing 60 seconds of pre-recorded voice/tone messages, and an auxiliary audio paging system interface. In addition, the VECP shall be capable of being utilized daily for paging applications [where authorized by the authority having jurisdiction (AHJ)] while remaining supervised. Activation of the VECP shall be via two (2) reverse polarity (NAC) inputs and/or two (2) supervised contact closures. Receipt of a reverse polarity input shall activate a Primary (Fire) Message Sequence, while receipt of a contact closure input shall activate a Secondary (Weather, etc) Message Sequence, with the Primary Message Sequence having priority over the Secondary Message Sequence. The VECP shall be equipped with 4 speaker circuits, field selectable for Class "A" or "B" operation. All wiring of the VECP shall be by means of plug-in style terminal strips. The VECP shall be field selectable for tone(s), initial tone duration, intermediate tone duration and number of repeats. Systems that require special tools or programming devices to accomplish programming shall no be considered equal. To aide in system diagnostics the VECP shall be equipped with a Diagnostic Meter Bar(s) for voltage and power monitoring.

Ordering Information

DVS-25P	25 Watt, 4 Speaker Circuits w/Digital Message, Microphone and Power Supply
DVS-50P	50 Watt, 4 Speaker Circuits w/Digital Message, Microphone and Power Supply
DVS-25	25 Watt, 4 Speaker Circuits w/Digital Message and Microphone (w/o Power Supply)
DVS-50	50 Watt, 4 Speaker Circuits w/Digital Message and Microphone (w/o Power Supply)
DVS-RM/P	Remote Supervised Microphone on 3-gang Electrical Type Switch Plate (key activated)
DVS-RM/B	Remote Supervised Microphone Mounted in Surface Mount Key-Locked Box
BATT12V07	7 A/Hr Battery (two required when utilizing DVS-25P or DVS-50P)



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