



450E

Electronic Horns & Horn/Strobes

CPG Signals  
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ISO 9001 Certified Management System

Description

Commercial Products Group Model 450E Electronic Horn produces a loud, distinctive, recognizable audible signal using a high efficiency piezo. The horn's high efficiency electronic circuitry is enclosed in a red or white high impact plastic, 4 1/2" square reentrant style housing. Model 450E horns operate on 24 VDC and are polarized for connection to supervised notification circuits. Model 450E horn/strobe units operate on 24 VDC. The horns are designed to operate at a low current draw with standard dB sound output or can be adjusted via a jumper for maximum dB sound output. CPG Model V1971 synchronized strobe lights are available as an option when visual signaling is required. Strobes can be synchronized using Model VSYNC sync module. Both the horn and strobe are listed for outdoor use.

Application

Model 450E Electronic Horns are well suited for areas where high

Sound output and low current draw are a consideration. The compact design, vandal resistant housing and wide range of mounting options permit the horn to fit most any application. The horn and horn/strobes can be indoor or outdoor (with WPBR back box and trim ring) mounted with appropriate mounting accessories.

Standard Features

- 24 VDC operation on filtered DC or FWR power.
- High impact plastic reentrant style housing, 4 1/2" square.
- High dB output.
- Adjustable power levels using field selectable jumper.
- Low current draw operation.
- Polarized for DC supervision.
- Screw terminals for field wiring connections.
- Available with red or white housing.
- Vandal resistant grill.
- Indoor or outdoor mounting.



Optional Features

- V1971 sync strobe lights available in 15/75, 30/75, 75, and 110 candela models. ADA complaint.
- Independent or simultaneous strobe operation.
- VST colored strobe lights available

Ordering Information

Model Number	Part Number	Description
450E-24R		Electronic horn, 24VDC, red
450E-24W		Electronic horn, 24VDC, white



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Specifications

Alarm notification appliances shall be electronic horns. The horn shall produce a distinctive, recognizable fire evacuation signal. The 450E horns shall operate from 9-31 VDC and be polarized for connection to supervised alarm notification circuits. The horns shall operate using filtered DC or unfiltered FWR power. The horn mechanism shall be housed in a high impact red or white plastic housing with a vandal resistant grill. The horns shall be capable of surface, semi-flush, flush, or outdoor mounting when used with the appropriate mounting accessories. The horns shall have screw terminals for field wiring connections using #12 to #18 AWG wire. An optional strobe light shall be capable of being mounted to the front of the horns. The horns shall produce a maximum UL Sound Pressure Level at 10 feet of 88dB(A). The horns shall be UL Listed for fire alarm signaling use. Alarm notification appliances shall be Commercial Products Group Model 450E Electronic Horns.

(OPTIONAL) The strobe lights shall be mounted to the front surface of the horns. The strobe lights shall operate on 24 VDC. The strobe lights shall use a xenon flashtube with solid state circuitry. The strobe lights shall comply with UL 1971 Standard for Signaling Devices for the Hearing Impaired and ADA. The strobe lights shall be UL Rated at 15/75, 30/75, 75, and 110 candela with a 1 Hz flash rate. The strobe lights shall be synchronized when used with VSYNC synchronization module. The strobe lights shall have red FIRE lettering and be listed for outdoor use. The strobe lights may be operated simultaneously with the horns or independently be field cutting a jumper. Horn/strobes shall be Commercial Products Group Model 450E and Model V1971 strobe lights.

450E Series C Electronic Horn & Horn/Strobe Specifications										
Model Type	Nominal Input Voltage	Rated Voltage Range	Current @ 24 VDC (low jumper)	Current @ 24 VDC (high jumper)	UL dB(A) Sound Pressure Level <sup>2</sup>		UL dB(A) Sound Power Level <sup>2</sup>		UL 1971 Rated Candela <sup>3</sup>	Flash Rate
					(Low)	(High)	(Low)	(High)		
450E-24	24 VDC	9 to 31 VDC	0.014A	0.019A	85	88	107.6	109.1	N/A	N/A
450ED24	24 VDC	16 to 31 VDC	0.086A	0.091A	85	85	105.8	107.8	15/75	1 Hz
450EJ24	24 VDC	16 to 31 VDC	0.104A	0.109A	85	85	105.8	107.8	30/75	1 Hz
450EM24	24 VDC	16 to 31 VDC	0.174A	0.179A	85	85	105.8	107.8	75	1 Hz
450EW24	24 VDC	16 to 31 VDC	0.212A	0.212A	85	85	105.8	107.8	110	1 Hz
<b>Notes:</b> * 450E Series C Horn operates using either filtered DC or unfiltered full-wave-rectified (FWR) power.										
2. The UL Sound Pressure Level & the Sound Power ratings are at nominal input voltage.										
3. All strobe models ADA complaint.										

Part Number	Description	Part Number	Description
450E-24R	Electronic Horn, 24 VDC, Red	VSYNC-M	Master Sync Module, 2 Class "B" Ckt, 1 Class "A", 3A
450E-24W	Electronic Horn, 24 VDC, White	NBR	Standard 4" Square Box (Red)
		FBL	3 5/8" Deep Wall Box for Flush Mounting Horn
	<b>Horn/Strobes (UL 1971)</b>	WPBR	Weatherproof Backbox for Surface Mounting Horn
450ED24R	Elect. Horn/Strb, V1971, 15/75Cd. Sync, 24 VDC, Red1	WPBR-D	Weatherproof Backbox, Deep, for Surf. Mtg. Horn
450ED24W	Elect. Horn/Strb, V1971, 15/75Cd. Sync, 24 VDC, White1	450EWPKIT	Trim Ring Adapter & Gasket for Outdoor Surface Mounting Horn to WPBR Box.
450EJ24R	Elect. Horn/Strb, V1971, 30/75Cd. Sync, 24 VDC, Red1		
450EJ2W	Elect. Horn/Strb, V1971, 30/75Cd. Sync, 24 VDC, White1	TPSF	Trim Plate, Semi-flush for Standard Box & for Mounting Strobe to Flush Horn with FB Back Box, Red or White.
450EM24R	Elect. Horn/Strb, V1971, 75Cd. Sync, 24 VDC, Red1		
450EM2W	Elect. Horn/Strb, V1971, 75Cd. Sync, 24 VDC, White1	FGR	Flush Mount Grill, Cross Hatch
450EW24R	Elect. Horn/Strb, V1971, 110Cd. Sync, 24 VDC, Red1	CCR	Adapter Plate for Mounting Horns to Odd-size Boxes
450EW24W	Elect. Horn/Strb, V1971, 110Cd. Sync, 24 VDC, White1	PRR	Projector, Single
		PR2R	Projector, Double
<b>Note:</b> 1. For weatherproof Horn/Strobe model add "-WP" to the above noted part numbers.			
Use with WPBR or WPBR-D box. 450EWPKIT is included with -WP Horn/Strobe models.			

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.