

Harrington Signal Inc.
2519 4th Avenue, Moline, Illinois 61265
P.O. Box 590, Moline, Illinois 61266-0590
Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215
Internet: www.harringtonfire.com



Description

Harrington Signal Inc Model SPHH PowerTone® High Output Speaker is designed for use in hazardous locations. The unit produces a crisp, clear, high-decibel tone/voice output. Tones may be generated by the PowerTone® Signaling System or any 25Vrms or 70Vrms tone/voice audio system. The speaker cone and projector are of spun aluminum. The circuitry and tone card are contained in dust and moisture proof sealed housing of die-cast aluminum. The speaker has a supervisory DC coupling capacitor and wattage taps from 0.5 to 15 watts. The speaker is UL Listed for indoor and outdoor use, is NEMA 3 rated, and is finished in red enamel. The PowerTone® Speaker is designed for connection to system supervised alarm notification circuits.

APPLICATIONS

The PowerTone® Speaker is well suited for signaling in hazardous areas with high ambient noise levels and where a high efficiency, weatherproof and corrosion-resistant surface mount speaker is required. The speaker is suitable for use in National Electrical Code (NFPA 70); Class I, Groups A, B, C, and D, Division 2; Class II, Groups F, G, Division 2; Class III hazardous locations. The speaker may be used with any 25Vrms or 70Vrms audio system. The speaker can be indoor or outdoor mounted. The SPHH is NEMA 3 rated.

Features

- Operates on 25Vrms or 70Vrms signal lines.
- Multiple power taps @ 0.5, 1, 2, 7, and 15 watts.



- High dB output for coverage of large areas.
- UL sound pressure level 102dB(A) at 10 feet. (see chart).
- Built in 15 watt high efficiency compression driver.
- Die-cast aluminum circuitry housing.
- Wide frequency response, 400 4000Hz.
- Supervisory capacitor.
- NEMA 3 rated enclosure.
- Indoor or outdoor mounting.

Ordering Information

| Model Number | Part Number | Description |
|--------------|-------------|--------------------------------------|
| SPHH-DVSMR | SPHH-DVSMR | High Output, Hazardous areas (Div 2) |
| | | |
| | | |
| | | |

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.



| ORDERING INFORMATION | |
|----------------------|--------------------------------------------------------------|
| Part Number | Description |
| SPHH-DVSMR | High Output Speaker, Surface Mount, 25 Volt or 70 Volt, Red. |

| Model SPHH Speaker Specifications | | | | | | |
|-----------------------------------|-----------------------|--------------------|-------------------------|--------------------|----------------------------------------------------------------------------|---------------------------|
| Model | Nominal Input Voltage | Frequency Response | UL dB(A) Sound Pressure | dB(A) Sound Power | Dimensions | Shipping Weight (approx.) |
| SPHH | 25 or 70Vrms | 400 - 4000Hz | 102 ¹ | 116.8 ¹ | 12 ¹ / ₄ "H x 8"W x 8 ¹ / ₈ "D | 5.5 lbs. |

NOTES:

1. Based on wattage tap selected. See dB chart below for specific dB output for each tap setting.

| Model SPHH dB Specifications | | |
|------------------------------|-------------------------|-------------------|
| Wattage Tap | UL dB(A) Sound Pressure | dB(A) Sound Power |
| 0.5 | 87 | 104.4 |
| 1 | 93 | 108.4 |
| 2 | 96 | 111.2 |
| 7 | 99 | 115.7 |
| 15 | 102 | 116.8 |

| HAZARDOUS LOCATIONS | | |
|---------------------|------------|----------|
| Class | Group | Division |
| I | A, B, C, D | 2 |
| II | F, G | 2 |
| III | - | 1 |

