Modulator® Speaker Array

Model MOD Series

Federal Signal’s Modulator® Speaker Array Series consists of a family of six electronic sirens. These innovative omni-directional sirens are capable of producing high-intensity warning signals over a wide area. This efficient design enables these sirens to produce a high sound level, while making only moderate demands on the power source.

Each Modulator Speaker Array is made up of aluminum modules that utilize four 100 watt drivers. Speaker arrays require a siren control unit/battery cabinet (purchased separately).

The Modulator Speaker Array provides a flat frequency response from 200 to 2000Hz for excellent voice reproduction or warning signals such as: Wail (attack), Pulsed Steady, Steady (alert), Alternating Steady, Alternating Wail, and Pulsed Wail – which are produced by the modulator siren control unit.

Federal Signal’s Modulator Speaker Array is intended for outdoor applications. Industrial sites such as refineries, chemical plants, power plants, or tank farms are typical applications for these omni-directional electronic arrays.

<table>
<thead>
<tr>
<th>Model</th>
<th>Active Modules</th>
<th>Watts</th>
<th>Decibels @ 100°*</th>
<th>Effective Range @ 70dBc</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOD1004</td>
<td>1</td>
<td>400</td>
<td>106dBc</td>
<td>1,200'</td>
</tr>
<tr>
<td>MOD2008</td>
<td>2</td>
<td>800</td>
<td>112dBc</td>
<td>1,800'</td>
</tr>
<tr>
<td>MOD3012</td>
<td>3</td>
<td>1200</td>
<td>115dBc</td>
<td>2,200'</td>
</tr>
<tr>
<td>MOD4016</td>
<td>4</td>
<td>1600</td>
<td>118dBc</td>
<td>2,800'</td>
</tr>
<tr>
<td>MOD5020</td>
<td>5</td>
<td>2000</td>
<td>120dBc</td>
<td>3,100'</td>
</tr>
<tr>
<td>MOD6024</td>
<td>6</td>
<td>2400</td>
<td>121dBc</td>
<td>3,400'</td>
</tr>
</tbody>
</table>

* MOD 6048 available, produces 125dBc @ 100’. Contact factory for specification assistance.
**MODULATOR® SPEAKER ARRAY (MOD)**

**SPEAKER CONTROLLER***
- MOD1004 UV + 1 UV400
- MOD2008 UV + 2 UV400
- MOD3012 UV + 3 UV400
- MOD4016 UV + 4 UV400
- MOD5020 UV + 5 UV400
- MOD6024 UV + 6 UV400

* Controllers available in Radio, IP, and Landline.

**SPECIFICATIONS**
- Frequency Response: 200-2000Hz ± 1dB
- Horizontal Coverage: 360° ± 1dB

**Wind Loading @ 110mph wind velocity**:  
- MOD1004 360 lbs.
- MOD2008 540 lbs.
- MOD3012 720 lbs.
- MOD4016 900 lbs.
- MOD5020 1080 lbs.
- MOD6024 1260 lbs.

1 Wind loading is the calculated force of wind at 110mph (shoreline), exposure D (flat, unobstructed coastal areas) on frontal area 4.94 ft. per American National Standards Institute A58.1 “Minimum design loads for buildings and other structures.”

**REPLACEMENT PARTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver, 100 watt</td>
<td>8570063A</td>
</tr>
</tbody>
</table>