



# Modulator II Electronic Siren Series

## Model MOD II Series

### DESIGNED FOR ALERT/ WARNING AND PUBLIC ADDRESS OVER A WIDE AREA

- Light-weight, compact design
- Utilizes Federal Signal Ultravoices™ for control and amplification
- Excellent frequency response for clear voice reproduction
- 360° coverage without sound variation in horizontal planes
- Easy servicing through convenient access panels
- Anechoic chamber-certified

Federal Signal's Modulator II Siren offers the same proven technology as the original Modulator with the exception of a smaller compact chassis. Modulator II provides a flat frequency response up to 2000Hz producing intense warning signals and digital voice messaging over a large area. The Modulator II design enables the siren to produce a high sound level and intelligible voice communications.

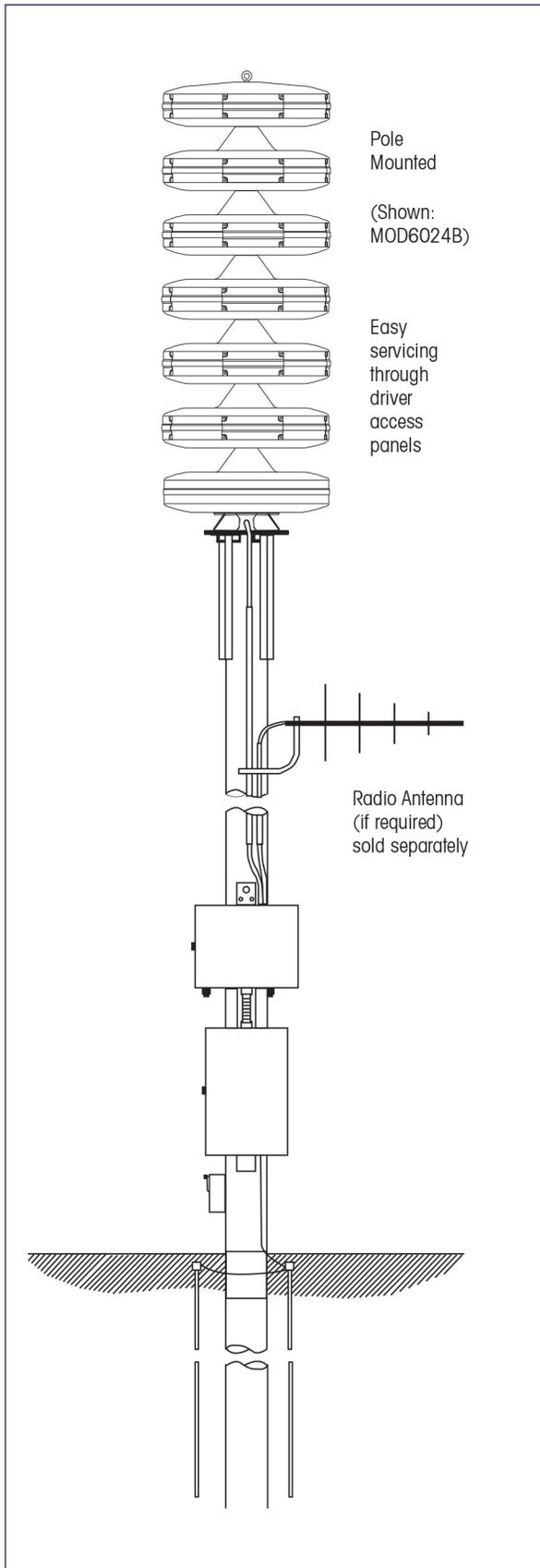
The innovative omni-directional electronic Modulator II speaker array consists of modules that utilize four 100 watt drivers. It also provides clear voice communication and offers warning signals which are produced by Federal Signal's UltraVoice™ electronic controller and amplifier system. Custom tones and professionally recorded voice messages for the UltraVoice controller are available and can be purchased upon request.

The Modulator II siren combined with the UltraVoice controller is ideal for community/municipal, industrial and military applications where immediate instruction is necessary. The MOD6032 and MOD6048 have been replaced by the MOD8032B which is shorter, lighter and more compact.

The Modulator II and UltraVoice controller can be networked via radio, IP, landline, cellular and/or satellite communications. Powering is available in AC, DC or solar. The system typically operates from batteries which are charged from either AC or Solar. Federal Signal can also provide customized solutions to fit a special application.

| Model    | Active Modules | Watt | Decibels @ 100' | Effective Range @ 70dBc |
|----------|----------------|------|-----------------|-------------------------|
| MOD1004B | 1              | 400  | 106dBc          | 1,200'                  |
| MOD2008B | 2              | 800  | 112dBc          | 1,800'                  |
| MOD3012B | 3              | 1200 | 115dBc          | 2,200'                  |
| MOD4016B | 4              | 1600 | 118dBc          | 2,800'                  |
| MOD5020B | 5              | 2000 | 120dBc          | 3,100'                  |
| MOD6024B | 6              | 2400 | 121dBc          | 3,400'                  |
| MOD8032B | 8              | 3200 | 124dBc          | 4,200'                  |

## MODULATOR II SPEAKER ARRAY (MOD II)



### SPECIFICATIONS

|                     |                            |
|---------------------|----------------------------|
| Frequency Response: | 200-2000Hz ± 1dB           |
| Color               | Off-White                  |
| Paint Type          | TGIC-polyester powder coat |
| Modulator Horn Type | Hyperbolic flare           |
| Frequency Response  | 200-2000 Hz                |
| Horizontal Coverage | 360° +/- 1 dB(C)           |
| Diameter            | 35"/88.9cm                 |

### Wind Loading @ 110mph wind velocity<sup>1</sup>:

|                             |                             |                              |                             |
|-----------------------------|-----------------------------|------------------------------|-----------------------------|
| <b>MOD1004B</b><br>251 lbs. | <b>MOD2008B</b><br>377 lbs. | <b>MOD3012B</b><br>503 lbs.  | <b>MOD4016B</b><br>629 lbs. |
| <b>MOD5020B</b><br>755 lbs. | <b>MOD6024B</b><br>881 lbs. | <b>MOD8032B</b><br>1133 lbs. |                             |

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

| Model    | Height (in./cm) | Net Wt. (lbs./kg) | Shipping Wt. (lbs./kg) |
|----------|-----------------|-------------------|------------------------|
| MOD1004B | 28"/71          | 125/56.8          | 264/120                |
| MOD2008B | 43"/109.2       | 190/86.4          | 294/133.6              |
| MOD3012B | 57"/144.7       | 255/115.9         | 444/201.8              |
| MOD4016B | 72"/182.8       | 320/145.5         | 544/247.3              |
| MOD5020B | 86"/218.4       | 385/175           | 744/338.2              |
| MOD6024B | 101"/256.5      | 450/204.5         | 960/436.4              |
| MOD8032B | 130"/330.2      | 580/263.6         | 1392/632.7             |

### HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

Considerations for system configuration:

- Specify speaker array model number – each speaker array model must be ordered with a specific corresponding UV and amplifier.

| SPEAKER  | CONTROLLER <sup>1</sup> |
|----------|-------------------------|
| MOD1004B | UV + 1 UV400            |
| MOD2008B | UV + 2 UV400            |
| MOD3012B | UV + 3 UV400            |
| MOD4016B | UV + 4 UV400            |
| MOD5020B | UV + 5 UV400            |
| MOD6024B | UV + 6 UV400            |
| MOD8032B | UV + 8 UV400            |

- Specify optional CABEX 10' cable extension<sup>2</sup>

<sup>1</sup> Controllers available in Radio, IP, and Landline.

<sup>2</sup> 40 feet of cable is supplied with siren. Extension cable in 10 foot increments is also available. Mounting the UV controller further than 100 feet is not recommended (further mounting may decrease power output).

### REPLACEMENT PARTS

| Description      | Model    |
|------------------|----------|
| Driver, 100 watt | 8570063A |