



Shown with optional side-light kit¹

► Model MOD Series

Modulator High-Powered Omni Speaker

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

The innovative omni-directional electronic Modulator 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 High-Powered Speaker Array 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 The MOD6032 and MOD6048 have been replaced by the MOD8032B, which is shorter, lighter and more compact.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 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 your special applications.

¹ Modulator models purchased after September, 2017, are pre-configured to support top and side lights kits for visual signaling options.

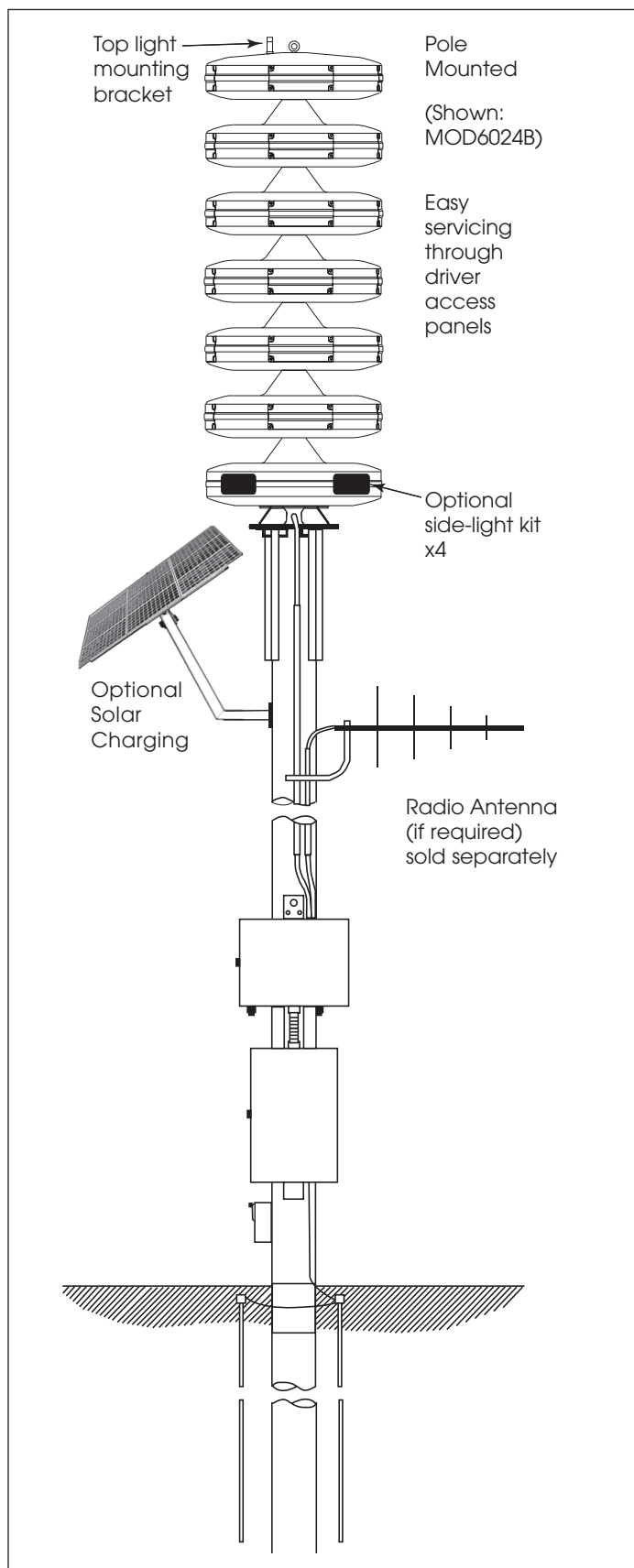
FEATURES

- Light-weight, compact design
- Utilizes Federal Signal UltravoicTM 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
- Optional visual signaling accessories available
- Optional steel/concrete pole mounting

MODEL	ACTIVE MODULES	TOTAL WATT	DECIBELS @ 100'	EFFECTIVE RANGE @ 70 dBc	HEIGHT IN	MM	NET WEIGHT LBS	KG	SHIPPING WT LBS	KG
MOD1004B¹	1	400	106 dBc	1,200'	28"	71	125	56.8	264	120
MOD2008B¹	2	800	112 dBc	1,800'	43"	109.2	190	86.4	294	133.6
MOD3012B¹	3	1200	115 dBc	2,200'	57"	144.7	255	115.9	444	201.8
MOD4016B¹	4	1600	118 dBc	2,800'	72"	182.8	320	145.5	544	247.3
MOD5020B¹	5	2000	120 dBc	3,100'	86"	218.4	385	175	744	338.2
MOD6024B¹	6	2400	121 dBc	3,400'	101"	256.5	450	204.5	960	436.4
MOD8032B¹	8	3200	124 dBc	4,200'	130"	330.2	580	263.6	1392	632.7

¹Add the letter C to the Modulator model name for steel/concrete pole mount model

Modulator® High-Powered Omni Speaker (MOD)



SPECIFICATIONS

Frequency Response:	200-2000Hz
Color	Off-White
Paint Type	TGIC-polyester powder coat
Modulator Horn Type	Hyperbolic flare
Horizontal Coverage	360° +/- 1 dBc
Diameter	35"/88.9cm
Wind Loading @ 110mph wind velocity ¹ :	
MOD1004B	251 lbs
MOD2008B	377 lbs
MOD3012B	503 lbs
MOD4016B	629 lbs
MOD5020B	755 lbs
MOD6024B	881 lbs
MOD8032B	1133 lbs

¹ Wind loading is the calculated force of wind at 110mph (shoreline), exposure D (flat, unobstructed coastal areas) on frontal area 4.64 ft. per American National Standards Institute A58.1 "Minimum design loads for buildings and other structures."

HOW TO ORDER

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

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

Speaker	Controller ²
MOD1004B ¹	UV + 1 UV400
MOD2008B ¹	UV + 2 UV400
MOD3012B ¹	UV + 3 UV400
MOD4016B ¹	UV + 4 UV400
MOD5020B ¹	UV + 5 UV400
MOD6024B ¹	UV + 6 UV400
MOD8032B ¹	UV + 8 UV400

¹ Add the letter C to the Modulator model for Steel/Concrete pole mount (i.e. MOD1004BC)

² Controllers available in Radio, IP, and Landline.

Note: 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).

See page 50 for the Solar Panel option.

OPTIONAL ACCESSORIES

Description	Part Number
Hazardous Location LED Light	191XL-024*
Side-light Kit	MOD-QF-KIT

*Indicate color: (A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red

REPLACEMENT PARTS

Description	Part Number
Driver, 100 watt	K8570063A