FEDERAL SIGNAL

Shown with optional QuadraFlare lights

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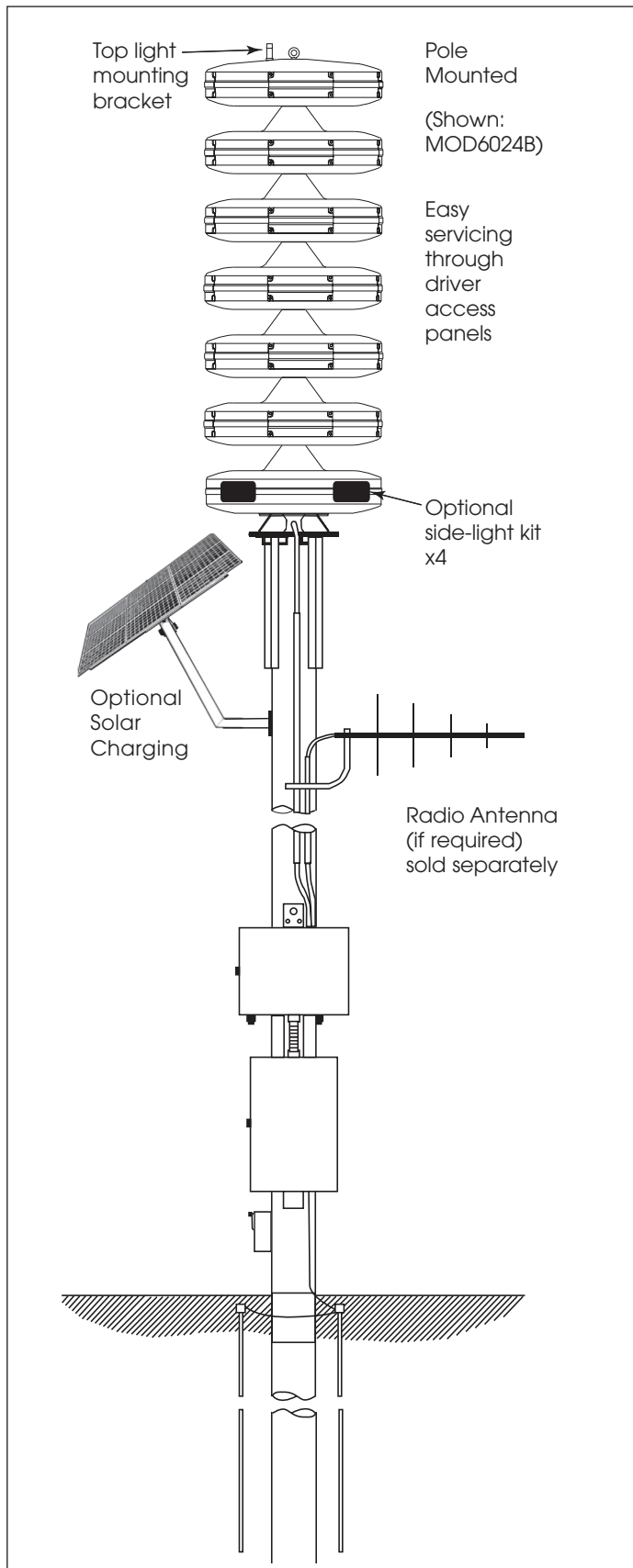
The Modulator and UltraVoice controller can be networked via radio, IP, landline, cellular and/or satellite communications. Powering is available in AC, DC, or solar. The system typically operates from batteries which are charged from either AC or Solar. Federal Signal can also provide customized solutions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

FEATURES

- Light-weight, compact design
- Utilizes Federal Signal Ultravoice™ 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

MODEL	ACTIVE MODULES	TOTAL WATT	DECIBELS @ 100'[1]	EFFECTIVE RANGE @ 70 dBc	HEIGHT IN	CM	NET WEIGHT LBS	KG	SHIPPING WT LBS	KG
MOD1004B	1	400	106 dBc	1,200'	28"	71	125	56.8	264	120
MOD2008B	2	800	112 dBc	1,800'	43"	109.2	190	86.4	294	133.6
MOD3012B	3	1200	115 dBc	2,200'	57"	144.7	255	115.9	444	201.8
MOD4016B	4	1600	118 dBc	2,800'	72"	182.8	320	145.5	544	247.3
MOD5020B	5	2000	120 dBc	3,100'	86"	218.4	385	175	744	338.2
MOD6024B	6	2400	121 dBc	3,400'	101"	256.5	450	204.5	960	436.4
MOD8032B	8	3200	124 dBc	4,200'	130"	330.2	580	263.6	1392	632.7

Modulator High Powered Omni Speaker (MOD)

Top light mounting bracket

Pole Mounted

(Shown: MOD6024B)

Easy servicing through driver access panels

Optional side-light kit x4

Optional Solar Charging

Radio Antenna (if required) sold separately

SPECIFICATIONS

Frequency Response:	200-2000Hz
Color	Off-White
Paint Type	TGIC-polyester powder coat
Modulator Horn Type	Hyperbolic flare
Horizontal Coverage	360º +/- 1 dB(C)
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[1]
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

[1] 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).

ACCESSORIES

Description	Part Number
Flashing light for top of MOD	**191XL-024***
Red Quadraflare 4 light kit	**MOD-QF-KIT**
Blue Quadraflare 4 light kit	**MOD-QF-KIT-B**

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

REPLACEMENT PART

Description	Part Number
Driver, 100 watt	**K8570063A**

UltraVoice is a registered trademark of Federal Signal Corporation.

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