Audible Signals Electronic Signals

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Overview

Our 5530M, 5531M and 5536M Adaptatone Millennium devices are heavy-duty industrial, tone-selectable, stand-alone signals capable of producing volume-controlled, high-decibel tones. They use a microprocessor circuit to create 27 distinctive tones, selected by setting a miniature dip switch within the unit. The Adaptatone Millennium can be activated from field-wired, normally open contacts, or from a 24Vdc external voltage source such as an output of a PLC. The 5536M can also accept signals from a Central Tone Generator.

5530M Multiple tone signal – one input, one output

5530M-485 Multiple tone signal for RS485 network

5530MHV High volume 30 watt version of 5530M

5530MHV-485 High volume 30 watt version of 5530M-485

5530MV-485 Multiple tone and voice signal for RS485 network – stores up to 20 seconds of field recorded messages

5531M Multiple tone signal – 4 inputs, 4 outputs

5531MHV High volume 30 watt version of 5531M

5531MV Multiple tone and voice signal – 4 inputs, 4 outputs. Stores up to 20 seconds of field recorded messages

5536M Local/system signal – 3 inputs, 3 outputs. Also accepts signal from central tone generator

5536MHV High volume 30 watt version of 5536M

Standard Features

- PLC compatible

 No external relays required
- Stand-alone, 27 tone capability
 No additional tone modules needed
- RS485 models
- Four 3 pulse temporal tones
- New "soft" tones
- Weatherproof
- · Corrosion resistant heat flowed epoxy finish
- Suitable for Division 2 Locations
- Captive Components

Agency Approvals

- cUL Listed for indoor and outdoor applications in Class I,
 Division 2, Groups A, B, C & D; Class II, Division 2, Groups F & G;
 and Class III Hazardous Locations
- CE Marked, LV & EMC Directives, (24Y6 AC only & 24AQ models)
- NEMA 3R rating

Specifications

- Heavy duty zinc cast construction
- 15 watt output to 110 dB @ 10 ft
- HV Models 30 watt output up to 113dB @ 10ft
- Speaker can be rotated and locked in any horizontal direction
- Activate signal directly from a PLC output or from a dry contact
- Models available for 24Vdc/AC 50/60 Hz, 120VAC 50/60 Hz, 120 to 240VAC 50/60 Hz & 125 to 250Vdc
- 24Vdc battery backup terminals provided

Applications

Designed for industrial applications requiring high decibel output and microprocessor reliability. Typical applications include emergency warning systems, plant evacuation and security intrusion alarms, process monitoring, shift start-and-dismissal horns, and paging signals.



5530M, 5531M and 5536M Series





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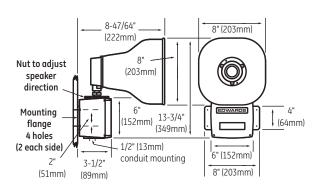
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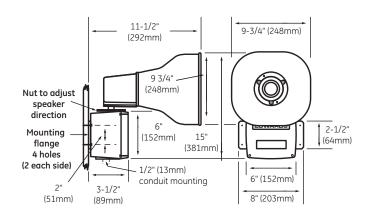
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Installation and Mounting

The 5530M, 5531M and 5536M Series are designed for either $\frac{1}{2}$ " (13mm) conduit or surface mounting.





5530M, 5531M, 5531MV, 5536M

5530MHV, 5531MHV, 5536MHV

PLC Compatibility

Cat. No.	Operating Voltage (Volts)	Max. off state leakage current (mA)	Continous on current (mA)	Surge (inrush/duration) (Amps/milliSeconds)
5530M-24AQ	24Vdc only	25	650	25/.024
5530M-24N5	120VAC*	25	290	2.82/4
5530MHV-24AQ	24Vdc only	25	650	25/.024
5531M-24AQ	24Vdc only	25	650	25/.024
5531M-24N5	120VAC*	25	290	2.82/4
5531MHV-24AQ	24Vdc only	25	650	25/.024
5531MV-24N5	120VAC*	25	290	2.82/4
5536M-24AQ	24Vdc only	25	650	25/.024
5536M-24N5	120VAC*	25	290	2.82/4
5536MHV-24AQ	24Vdc only	25	650	25/.024
24Vdc Input Board Circuit	5Vdc to 24Vdc (each input)	2	6	_

* 50/60 Hz



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Ordering Information

5530 Series

Cat. No.	Operating Voltage	Input Card Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
5530M-24AQ	24Vdc	24Vdc	0.10	0.64
333011-24AQ	24VAC*		0.10	1.22
5530M-24N5	120VAC*	24Vdc	0.10	0.28
	125Vdc		0.04	0.16
5530M-24Y6	250Vdc	24Vdc	0.02	0.08
3330M-2410	120VAC*	24000	0.10	0.24
	240VAC*		0.10	0.15
5530MHV-24AQ	24Vdc	24Vdc	0.10	1.22
3330MINV-24AQ	24VAC*	24000	0.10	2.21
	125Vdc	24Vdc	0.04	0.37
5530MHV-24Y6	250Vdc		0.02	0.17
5530MHV-24Y6	120VAC*		0.10	0.63
	240VAC*		0.07	0.30
	125Vdc		0.04	0.16
5530M-485Y6	250Vdc	RS485	0.02	0.08
3330M-40310	120VAC*	K5485	0.10	0.24
	240VAC*		0.10	0.15
	125Vdc	RS485	0.04	0.37
EEZOMUV 40EV6	250Vdc		0.02	0.17
5530MHV-485Y6	120VAC*		0.10	0.63
	240VAC*		0.07	0.30
FF70MV 40FVC	125Vdc		0.04	0.15
	250Vdc	חכיים -	0.02	0.08
5530MV-485Y6	120VAC*	RS485	0.10	0.28
	240VAC*		0.07	0.15

* 50/60 Hz

5531 Series

Cat. No.	Operating Voltage	Input Card Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
5531M-24AQ	24Vdc	24Vdc	0.10	0.57
	24VAC*	24000	0.10	0.98
5531M-24N5	120VAC*	24Vdc	0.10	0.23
	125Vdc		0.10	0.15
5531M-24Y6	250Vdc	24Vdc	0.02	0.08
5531M-24Y6	120VAC*	24000	0.10	0.28
	240VAC*		0.08	0.15
5531MHV-24AQ	24Vdc	24Vdc	0.10	1.14
	24VAC*		0.10	1.73
5531MHV-24Y6	125Vdc		0.10	0.31
	250Vdc	24Vdc	0.10	0.15
	120VAC*	24000	0.10	0.47
	240VAC*		0.10	0.28
5531MV-24N5	120VAC*	24Vdc	0.10	0.23
5531MV-24Y6	125Vdc		0.10	0.15
	250Vdc	24Vdc	0.02	0.08
JJJ1I*IV-2410	120VAC*		0.10	0.28
	240VAC*		0.08	0.15

* 50/60 Hz

5536 Series

Cat. No.	Operating Voltage	Input Card Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
EE76M 24AO	24Vdc	24Vdc	0.10	0.64
5536M-24AQ	24VAC*		0.10	1.22
5536M-24N5	120VAC*	24Vdc	0.10	0.28
	125Vdc	24Vdc	0.10	0.15
5536M-24Y6	250Vdc		0.10	0.77
5536I*I-24Y6	120VAC*		0.10	0.24
	240VAC*		0.10	0.15
557684111/2/40	24Vdc	24Vdc	0.10	1.14
5536MHV-24AQ	24VAC*		0.10	1.73
	125Vdc	24Vdc	0.03	0.34
5536MHV-24Y6	250Vdc		0.02	0.17
	120VAC*		0.10	0.53
	240VAC*		0.07	0.30

* 50/60 Hz



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Tone Chart

Tone	Description	dB Ratings at 10 Ft. Volume*	
	B C S C I P C C I	Standard Model	HV Model
Ding-Dong	Percussive pairs of 700 and 570 Hz tones, each damped to zero	98	101
Warble	575 and 770 Hz alternately, 87 ms each	104	107
Siren	600-1250 Hz up and down sweep in 8 Sec.	99	102
Stutter	Percussive 470 Hz, 83 ms on, 109 ms off	103	106
Slow Whoop	600-1250 Hz upward sweep in 4 sec.	110	113
Веер	470 Hz, 0.55 sec. on, 0.55 sec. off	102	105
Chime 1	700 Hz percussive repeat at 1 Hz	98	101
Fast Whoop	600-1250 Hz upward sweep in 1 sec.	110	113
Hi/Lo	780 to 600 Hz alternately, 0.52 sec. each	105	108
Rapid Siren	600-1250 Hz up and down sweep in 0.25 Sec.	107	110
Yeow	1250-600 Hz downward sweep in 1.6 sec. and repeat	110	113
Horn	470 Hz continuous	102	105
Air Horn	370 Hz continuous	102	105
Dual Tone	450-500 Hz, 0.4 to 0.5 sec. cycle	103	106
Chime 2	575 Hz percussive repeat at 1 Hz.	96	99
3 Pulse Horn	470 Hz, 3 0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 sec. delay and repeat	107	110
3 Pulse Air Horn	370 Hz, 3-0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 sec. delay and repeat	107	110
3 Pulse Dual Tone	450-500 Hz, 0.4 to 0.5 sec. cycle, 3-0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 second delay and repeat	105	108
3 Pulse Chime 2	575 Hz, 3-0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 sec. delay and repeat	95	98
Phasor	416-625 Hz up and down sweep in 13ms	102	105
Telephone	570 and 770 Hz alternately 50ms. each for 1.2 sec., 1.5 sec. delay	103	106
Staircase	440-2000 Hz up and down steps, 750ms	107	110
3 Tone Alert	463, 641,and 869 Hz, 200ms each 1 sec. delay	106	109
Presignal Chime	470 Hz percussive repeat at 1.5 Hz	95	98
NFPA Whoop	422-775 Hz upward sweep 850 ms each, 1 sec. delay and repeat	104	107
Westminster	Two measures 411, 520, 407, 312 Hz	98	101
Three Blind Mice	Four Measures, 787, 714, 625, 952, 333 Hz	101	104

^{*} Ratings taken in an anechoic chamber with signal volume control set at maximum and measurements made on an "A" weighted scale with peak hold

Programmable Tone Selection

Programming the Adaptatone Signal for the tone or tones selected is accomplished through setting the switches located in the signal base. A convenient tone selection chart is provided in the cover of each unit. In some cases the signaling task will dictate the tones required.

For example, if a paging function is to be performed one of the unique percussive tones (Chime1 or Chime 2) may be most suitable. Local regulations or standards may require specific tones such as siren, horn, hi-lo. In some cases varying ambient noise may necessitate on-site evaluation of all available tones to select the most suitable tone.

On-site volume control is also available by adjusting the conveniently located volume control in the base.

Priority Tone Operation

The Adaptatone Millennium signals have priority capability. The programmed tones operate on a pyramid-type priority system. The tone programmed on switch 1 overrides the tones programmed on switches 2, 3, and 4. The tone on switch 2 overrides the tones programmed on switches 3 and 4. Likewise, the tone on switch 3 overrides the tone programmed on switch 4. The tone programmed on switch 4 has the lowest priority and cannot override any other programmed tone.

