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Thank you for using our products. INSTALLATION INSTRUCTIONS SERIES AMT MULTITONE STROBE APPLIANCES AMT-241575W-NYC

Use this product according to this instruction manual. Please keep this instruction manual for future reference.

GENERAL:

The AMT Multitone Strobe Appliance is UL Listed under Standard 1971 for Signaling Appliances for the Hearing Impaired and UL Standard 464 for Audible Signal Appliances. The AMT Strobes can provide a non-synchronized strobe appliance when connected directly to a Fire Alarm Control Panel (FACP), or provide a synchronized strobe appliance when used in conjunction with a Sync Module (SM), Dual Sync Module (DSM) or Wheelock's Power Supplies. The AMT-241575W is listed for wall mounting and *indoor use only* with the backboxes specified in these instructions (See Mounting Options). The 1575 candela wall mounted strobe is listed at 15 candela under UL Standard 1971 and meet 75 candela intensity on axis with low current draw. The AMT Multitone Strobe Appliance uses a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum visibility and reliability for effective visible signaling.

NOTE: "Lexan" is a registered trademark of General Electric Company Corporation.

Wheelock's AMT Appliance is a unique multitone alarm appliances with separate input terminals for each sound. It is the ideal choice for suppression systems and emergency signaling systems where distinctive multiple alarm conditions are required. Sound output can be field set to provide either HIGH (HI) dBA or STANDARD (STD) dBA sound output level.

The AMT Multitone Strobe model is designed for use with either filtered or unfiltered Full-Wave-Rectified (FWR) input voltage. The AMT has separate input terminals for alarm tone activation and strobe activation. The strobe can be easily field programmed to operate independently or in unison with all of the audible appliances. All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

The Series AMT is a single multitone device capable of three separate and distinct signals from three different sources together with an ADA compliant strobe light. These devices may be employed only in the following installations:

- 1. Computer rooms, libraries, museums, etc. which utilize FM-200, halon inergen or any other fire extinguishing system as defined in the Rules of the City of New York 15-08.
- 2. Pre-Action Sprinkler Systems
- 3. In lieu of the three separate and distinct signals at the Interior Fire Alarm, Smoke Detection and Sprinkler Alarm Systems control panel.

Table 1: Sequence of Tones for Various Systems						
Priority and	Pre-Action	Halon, FM-200	Lieu of 3 Separate and			
Tone	Sprinkler	Inergen, etc.	Distinct Signals at IPA			
Priority 1 (Bell Tone)	Waterflow, Smoke Detector and Manual Pull Station	Agent Discharge	Waterflow			
Priority 2 (Code 3 Horn Tone)	Valve Tamper Device, Low-Air Supervisory	Cross-Zoned Smoke Detector	Smoke Detector and Manual Pull Station			
Priority 3	Trouble Condition	First Smoke	Valve Tamper Device			
(Vibrating Chime)		Detector	or any Trouble Condition			
Strobe	Priority	Priority	Priority			
Activation	1 & 2	1, 2 & 3	1 & 2			

Table 1 below shows the following sequence of tones for various systems.

For example, whenever the vibrating chime (Priority 3) is activated in a computer room protected by FM-200 agent, then the occupants will know that one smoke detector has been activated. When the code 3 horn (Priority 2) is activated, then the occupants will be advised to evacuate the premises and finally the bell tone (Priority 1) means the release of the extinguishing agent. The ADA compliant strobe will be activated upon the first fire detection and will stay on throughout the sequence of operation leading to discharge.

Please note that during any time when multiple signals are received a Priority 3 signal shall be overridden by a Priority 2 signal which consequently shall be overridden by a Priority 1 signal.

Suitably engraved signage explaining the significance of each signal will be placed near each of the signaling devices.

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NOTE: All **CAUTIONS** and **WARNINGS** are identified by the symbol \triangle . All warnings are printed in bold capital letters.

A WARNING: THE AMT STROBE APPLIANCE IS A "FIRE ALARM DEVICE - DO NOT PAINT."

A WARNING: PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

A WARNING: THE AMT MULTITONE STROBE APPLIANCES MUST BE FIELD SET TO THE DESIRED dBA SOUND OUTPUT LEVEL BEFORE THEY ARE INSTALLED. THIS IS DONE BY PROPERLY INSERTING A JUMPER PLUG AND ADJUSTING A FOUR POSITION SWITCH IN ACCORDANCE WITH THESE INSTRUCTIONS. INCORRECT SETTINGS WILL RESULT IN IMPROPER PERFORMANCE AND MAY DAMAGE THE PRODUCT, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

SPECIFICATIONS:

Table 2: UL Listed Models					
Model	Nominal Voltage	Voltage Range Limit	Strobe Candela	Mounting	
	(VDC)	(VDC)	(cd)	Options	
AMT-241575W	24	16.0-33.0	15*	A,B,C,D,E,F,G	

* 15cd models are UL Listed at 15cd and meet 75 on axis.

WARNING: THESE APPLIANCES WERE TESTED TO THE OPERATING VOLTAGE LIMITS OF 16-33 VOLTS USING FILTERED (DC) OR UNFILTERED FULL-WAVE-RECTIFIED (FWR). DO NOT APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEM OPERATION.

Table 3A: UL Current Ratings (AMPS) for AMT Multitone Audible Signal										
			16.0VDC		24.0VDC			33.0VDC		
	HI/LO	D	С	FWR	D	С	FWR	D	С	FWR
Tone	Volume	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.
		MEAN	RMS	RMS	MEAN	RMS	RMS	MEAN	RMS	RMS
	HI	.015	.035	.023	.019	.042	.031	.025	.053	.040
Bell	STD	.011	.015	.016	.015	.020	.022	.019	.026	.028
Code 3	HI	.031	.060	.044	.048	.085	.072	.060	.108	.092
Horn	STD	.018	.023	.025	.026	.034	.038	.033	.043	.050
	HI	.009	.023	.017	.014	.032	.024	.018	.041	.033
Chime	STD	.006	.009	.011	.011	.015	.017	.014	.020	.022

NOTE: Add strobe current from Table 3A to audible appliance current from Table 3B to obtain total current for each unit, if the strobe and audible are wired to operate in unison on a single circuit.

Table 3B: UL Strobe Current Ratings (AMPS0						
Rated Average Current		Rated Peak Current *		Rated Inrush Current *		
24VDC Rated Voltage	241575W	24VDC Rated Voltage	241575W	24VDC Rated Voltage	241575W	
Limit	RMS	Limit		Limit		
16.0VDC	0.101	16.0VDC	0.300	16.0VDC	0.400	
24.0VDC	0.064	24.0VDC	0.300	24.0VDC	0.400	
33.0VDC	0.047	33.0VDC	0.300	33.0VDC	0.400	
16.0VRMS	0.154	16.0VRMS	0.300	16.0VRMS	0.400	
24.0VRMS	0.106	24.0VRMS	0.300	24.0VRMS	0.400	
33.0VRMS	0.086	33.0VRMS	0.300	33.0VRMS	0.400	

The AMT Multitone Audible appliances produce a brief inrush current that lasts for 2 microseconds but it can reach a peak value of 8.0 Amps (11.2 Amps for FWR input).

* The time duration for the peak/inrush current is 10 milliseconds.

A WARNING: MAKE SURE THAT THE TOTAL AVERAGE CURRENT, TOTAL PEAK CURRENT AND TOTAL INRUSH CURRENT REQUIRED BY ALL APPLIANCES THAT ARE CONNECTED TO THE SYSTEM'S PRIMARY AND SECONDARY POWER SOURCES AND NAC CIRCUITS, SM, DSM SYNC MODULES AND WHEELOCK'S POWER SUPPLIES DO NOT EXCEED THE POWER SOURCES' RATED CAPACITY OR THE CURRENT RATINGS OF ANY FUSES ON THE CIRCUITS TO WHICH THESE APPLIANCES ARE WIRED. OVERLOADING POWER SOURCES OR EXCEEDING FUSE RATINGS COULD RESULT IN LOSS OF POWER AND FAILURE TO ALERT OCCUPANTS DURING AN EMERGENCY, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

When calculating the total average, peak or inrush currents: Use Table 3A and 3B to determine the highest value of "Rated Average Current" for an individual strobe (across the expected operating voltage range of the strobe), to determine the highest value of "Rated Inrush Current" or "Rated Peak Current" (whichever is higher) of an individual strobe (across the expected voltage range of the strobe), then multiply these values by the total number of strobes; be sure to add the currents for any other appliances, including audible signaling appliances, powered by the same source and include any required safety factors.

If the inrush current or peak current exceeds the power supplies' inrush capacity, the output voltage provided by the power supplies may drop below the listed voltage range of the appliances connected to the supply and the voltage may not recover in some types of power supplies. For example, an auxiliary power supply that lacks filtering at its output stage (either via lack of capacitance and/or lack of battery backup across the output) may exhibit this characteristic.

CAUTION: Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

	Tı	uble 4: UL dBA Rati	ings			
		dBA Reverberant Ratings				
Tone	HI/STD	Per UL 464				
	Volume	16V	24V	33V		
Bell	HI	80	84	87		
	STD	73*	78	81		
G 1 2 U	HI	84	88	90		
Code 3 Horn	STD	78	81	84		
Chime	HI	74*	78	81		
	STD	66*	71*	74*		

A WARNING: AMT MULTITONE STROBE MODELS SET ON VIBRATING CHIME TONE WITH STANDARD dBA DO NOT MEET THE 75 dBA MINIMUM UL REVERBERANT SOUND LEVEL REQUIRED FOR PUBLIC MODE FIRE PROTECTION SERVICE (NOTED BY * IN TABLE 4). MODELS WITH SETTINGS WHICH PRODUCE LESS THAN 75 dBA MAY NOT BE HEARD. THIS SETTING IS ACCEPTABLE ONLY FOR GENERAL SIGNALING (NON-FIRE ALARM) USE. USE THE "HIGH" dBA SETTING WITH THIS TONE OR USE A DIFFERENT TONE FOR PUBLIC MODE SERVICE.

LIGHT DISTRIBUTION:

Table 5: Horizontal and Vertical Plane					
	Horizontal Plane			Vertical Plane	
Angle	UL	Тур.	Angle	UL	Тур.
(in deg.)	Min.	1575cd	(in deg.)	Min.	1575cd
0	15.0	94	0	15.0	94
5	13.5	93	5	13.5	83
10	13.5	88	10	13.5	30
15	13.5	87	15	13.5	19
20	13.5	85	20	13.5	17
25	13.5	80	25	13.5	16
30	11.3	75	30	13.5	15
35	11.3	71	35	9.8	12
40	11.3	62	40	6.9	11
45	11.3	52	45	5.1	10
50	8.3	35	50	4.1	9
55	6.8	32	55	3.3	9
60	6.0	34	60	2.7	9
65	5.3	27	65	2.4	9
70	5.3	19	70	2.3	10
75	4.5	11	75	2.0	10
80	4.5	9	80	1.8	9
85	3.8	10	85	1.8	9
90	3.8	10	90	1.8	9

AMT MULTITONE SETTINGS:

The Switch (SW1) of the AMT Multitone Strobe Appliances, shown in Figure 1, is used to set the desired dBA sound output level. The factory settings are shown below. **Read these instructions carefully before changing any of these factory settings.**



THE FACTORY SETTINGS ARE:

HIGH dBA:

Priority 1 (PRI 1) Bell Priority 2 (PRI 2) Code 3 Priority 3 (PRI 3) Vibrating Chime

SW1 POS 1 = 1

Switch positions 2, 3, and 4 are not used.

The AMT Multitone Appliance cannot be field set for input voltage. AMT Multitone Strobe Appliance is field set for dBA sound output level by adjusting a four position Switch (SW1) as shown in Table 6 and Figure 2. Use SW1 Position 1 to select the dBA sound output level.

Table 6: dBA Sound Output Level Settings				
Decibel Level	SW1 Settings			
HIGH dBA:	Set SW1 POS 1 on 1 (Factory Setting)			
STD dBA:	Set SW1 POS 1 on 0			



A WARNING: DOUBLE CHECK THE SWITCH (SW1) SETTINGS TO MAKE SURE THEY ARE CORRECT. IMPROPER SETTINGS CAN DAMAGE THE UNIT OR RESULT IN NO SOUND OUTPUT OR A dBA SOUND OUTPUT LEVEL THAT IS BELOW THE 75 dBA MINIMUM CODE REQUIREMENTS FOR PUBLIC MODE FIRE PROTECTION. THIS COULD RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

NOTES:

- 1. The prioritized tones contained are factory pre-set and cannot be changed.
- 2. The Code 3 Horn incorporates the temporal pattern specified by ANSI/NFPA for standard emergency evacuation signaling. They should be used only for fire evacuation signaling and not for any other purpose.

The Bell Tone can be used on coded systems with a minimum On-Time of 1/4 second if the audible and strobe are wired to operate independently. All other tones are recommended for use only on continuous (non-coded) systems.

Independent Strobe Actuation Setting



NOTE: The strobe input is required only for independent actuation of the strobe.

WIRING DIAGRAMS:



Isolated inputs are provided for independent supervision and actuation of the three audible inputs and strobe.







Unsupervised System Common Negative



For applications not requiring supervision: connect all negative (-) terminals to the power source. The positive (+) terminal for each appliance will actuate the appliance.

In case of simultaneous inputs, the three audible outputs are self-prioritized as follows: 1st priority = PRI 1; 2nd priority = PRI 2; 3rd priority = PRI 3.

Leave any unused inputs disconnected.

- 1. The AMT Multitone Strobe model has in-out wiring terminals that accept two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
- 2. Break all in-out wire runs on supervised circuits to assure integrity of circuit supervision as shown on left. The polarity shown in the wiring diagrams are for operation of the appliances. The polarity is reversed by the FACP during supervision.

MOUNTING OPTIONS:

CAUTION: The following figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product.

Although the limits shown for each mounting option comply with the National Electrical Code (NEC), Wheelock recommends use of the largest backbox option shown and the use of approved stranded field wires, whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.



A WARNING: WHEN INSTALLING STROBES IN AN OPEN OFFICE OR OTHER AREAS CONTAINING PARTITIONS OR OTHER VIEWING OBSTRUCTIONS, SPECIAL ATTENTION SHOULD BE GIVEN TO THE LOCATION OF THE STROBES SO THAT THEIR OPERATING EFFECT CAN BE SEEN BY ALL INTENDED VIEWERS, WITH THE INTENSITY, NUMBER, AND TYPE OF STROBES BEING SUFFICIENT TO MAKE SURE THAT THE INTENDED VIEWER IS ALERTED BY PROPER ILLUMINATION, REGARDLESS OF THE VIEWER'S ORIENTATION. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOUR AND/OR OTHERS.

A WARNING: A SMALL POSSIBILITY EXISTS THAT THE USE OF MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW, UNDER CERTAIN CIRCUMSTANCES, MIGHT INDUCE A PHOTO-SENSITIVE RESPONSE IN PERSONS WITH EPILEPSY. STROBE REFLECTIONS IN A GLASS OR MIRRORED SURFACE MIGHT ALSO INDUCE SUCH A RESPONSE. TO MINIMIZE THIS POSSIBLE HAZARD, WHEELOCK STRONGLY RECOMMENDS THAT THE STROBES INSTALLED SHOULD NOT PRESENT A COMPOSITE FLASH RATE IN THE FIELD OF VIEW WHICH EXCEEDS FIVE (5) Hz AT THE OPERATING VOLTAGE OF THE STROBES. WHEELOCK ALSO STRONGLY RECOMMENDS THAT THE INTENSITY AND COMPOSITE FLASH RATE OF INSTALLED STROBES COMPLY WITH LEVELS ESTABLISHED BY APPLICABLE LAWS, STANDARDS, REGULATIONS, CODES AND GUIDELINES.

MOUNTING NOTES:

CAUTION: Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or 3/4" conduit fittings are used.

- 1. AMT Multitone Strobe models can be flush mounted to a standard 4 inch square by 2-1/8 inch deep electrical box (Figure A) or a standard 2-gang by 3-1/2" inch minimum deep electrical box (Figure B).
- 2. All models can also be surface mounted to Wheelock's model IOB backbox (Figure C or D) or to a 4" square backbox (model DBB or BB) with Wheelock's model ISP extender (Figure F and G).
- 3. AMT Multitone Strobe models can also be retrofitted to an existing FSB backbox to replace Wheelock's model 7001 Strobe Horn when used with Wheelock adapter plate model RP (Figure E).
- 4. All models are supplied with four snap-in covers to hide the mounting holes and provide an attractive installation. The snap-in covers are interchangeable and have slots on each end so they can be removed if necessary (by prying them up with a thin blade screwdriver). To insert snap-in cover, slide the outside edge of the cover (furthest edge from the strobe lens) partially into the mounting hole recess; then align the cover so it is parallel to the grille (not tilted) and snap cover into place.
- 5. The IOB surface backbox has 1/2 inch conduit knockouts on two sides. It has a variety of knockouts on the back for mounting it to recessed electrical boxes and for wire entrances (Figure D). It can also be mounted to a surface with the two mounting ears that are supplied. The ears slide into slots on the back of the box (Figure C). Use appropriate anchors for the wood screws that are supplied with the box (if necessary).
- 6. The IOB includes a prefastened gasket and four hole plugs. Make sure the condensation drain holes on the box face down and that the box is vertical to permit drainage of any moisture. Use the mounting ears to secure the box (do not use the back knockouts). Use the hole plugs to seal the unused mounting holes on the AMT Multitone grille (press them in securely from the back side of the grille). Mount the unit to the IOB with the four #8-18 screws supplied with the box.
- 7. All models are UL Listed for indoor use only with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 85% RH.
- 8. Mounting hardware for each mounting option is supplied.
- 9. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product. When extension rings are required, conduit should enter through the backbox, not the extension ring. Use Steel City #53151 (1-1/2" deep) or #53171 (2-1/8" deep) extension rings (as noted in the mounting options) or equal with the same cut-out area.
- 10. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the signaling appliance.
- 11. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
- 12. Do not pass additional wires (used for other than the signaling appliance) through the backbox. Such additional wires could result in insufficient wiring space for the signaling appliance.

A WARNING: NFPA CODES REQUIRE SIGNALING APPLIANCES TO BE SUPERVISED. CHECK TO BE CERTAIN THAT UNSUPERVISED SIGNALING APPLIANCES DO NOT VIOLATE ANY APPLICABLE CODES.

NOTE: NFPA 72/ANSI 117.1 Conform to ADDAAG Equivalent Facilitation Guidelines in using fewer, higher intensity strobes within the same protected area.

These appliances can produce a distinctive three pulse Temporal Pattern Fire Alarm Evacuation Signal (For total evacuation in accordance with NFPA 72 1999 Edition.

 \triangle CAUTION: Check the installation instructions of the manufacturers of other equipment used in the system for any guidelines or restrictions on wiring and/or locating Notification Appliance Circuits (NAC) and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure immunity from electrical noise (e.g. audio crosstalk).

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IMPORTANT: READ SEPARATE "GENERAL INFORMATION" SHEET FOR INFORMATION ON THE PLACEMENT, LIMITATIONS, INSTALLATION, FINAL CHECKOUT, AND PERIODIC TESTING OF NOTIFICATION APPLIANCES.

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5/03