



Description

The AMT Series Multiple Input Electronic Appliances provide the industry with a ULC combination audible/visual appliance that simplifies installation and offers three (3) distinct prioritized audible signals from three isolated inputs. Priority (1) will override all other commands upon activation.

The AMT offers a choice of eight (8) self-prioritized sound combinations for suppression releasing systems, combination security and emergency evacuation systems and high risk installations as well as many other applications.

Each AMT Audible and AMT Strobe appliance has two user selective sound output levels: Standard dBA and High dBA. The AMT Audible provides 12 VDC or 24 VDC Cooperation, filtered or FWR. The AMT Strobe Appliances operate at 24 VDC and may be used with filtered or unfiltered (FWR) input voltages. Separate supervised sets of input terminals are available for each prioritized input. Jumper plugs are provided to enable both tone and strobe to operate simultaneously for all inputs.

The AMT Multitone Strobe Appliances are ULC Listed under Standard CAN/ULC-S526-02 for Visual Signaling Appliances and Standard CAN/ULC-S525-99 for Audible Signaling Appliances and use a Xenon flashtube with solid state circuitry enclosed in a rugged Lexan® lens to provide maximum reliability for effective visible signaling.

Engineering Specifications

The notification appliance shall be an AMT Series audible/visual appliance or equivalent. Notification appliance shall be electronic and use solid state components. Electromechanical alternatives are not approved. Tone selection shall be by durable dip switch assembly and not clips or jumpers. The audible and the strobe shall be able to operate from a single NAC circuit while producing any of these tones.

Features

- Approvals include: CAN/ULC-S526-02 for Visual Signaling Appliances and Standard CAN/ULC-S525-99 for Audible Signal Appliances
- Three separate prioritized inputs that will activate three isolated signals
- All inputs are supervised
- Code-3 Horn and Tone meet ANSI/NFPA/ISO temporal pattern.
- Two power taps for High dBA and Standard dBA @ 10 feet
- AMT with strobe can flash independently or in unison with all audible signals
- Selectable input voltage (12 or 24 VDC) for non-strobe applications
- Polarized inputs for compatibility with standard reverse polarity type supervision of circuit wiring by an alarm panel.
- Low cost installation via standard electrical boxes. Attractive flush or surface mounting options
- No additional trimplate required for flush mounting. Fast installation with In/Out screw terminals using #12 to #18 AWG

The appliances shall provide two output sound levels: Standard and High dBA. The High anechoic dBA measurement at 10 feet at the alarm HORN SETTING shall be 98 dBA for AMT and 98 dBA for AMT Strobes, at nominal voltage. Operating voltages shall be either 12 VDC (Audible only) or 24 VDC using filtered power or unfiltered power supply (FWR). All models shall have provisions for standard reverse polarity type supervision and IN/OUT field wiring using terminals that accept #12 to #18AWG wiring.

Combination audible/visual appliances shall incorporate a Xenon flashtube enclosed in a rugged Lexan lens or equivalent with solid state circuitry. Strobe shall meet ULC Listed under Standard CAN/ULC-S526-02 for Visual Signaling Appliances and Standard CAN/ULC-S525-99 for Audible Signaling Appliances.

The combination audible/visual appliances may be installed indoors and surface or flush mounted. They shall mount to standard electrical hardware requiring no additional trimplate or adapter. The aesthetic appearance shall not have any mounting holes or screw heads visible when the installation is completed. The appliance shall be finished in a textured red color. The audible appliance may be installed indoor or outdoor with the proper backbox.



Specifications

Current Ratings for AMT Multitone Audible Signals

| Tone | Tone Description | Rated Average Current (AMPS) 24 VDC-Audible | | Rated Average Current (AMPS) 12 VDC-Audible | |
|-----------------|---|---|---------|---|---------|
| | | HI dBA | STD dBA | HI dBA | STD dBA |
| Horn | Broadband Horn (continuous) | .046 | .025 | .100 | .020 |
| Bell* | 1560 Hz Modulated (0.07 Sec. On/Repeat) | .018 | .014 | .031 | .010 |
| March Time Horn | Horn (0.25 Sec. ON/0.25 Sec. Off/Repeat) | .046 | .025 | .100 | .020 |
| Code-3 Horn | Horn (ANSI S3.41 Temporal Pattern) | .046 | .025 | .100 | .020 |
| Code-3 Tone | 500 Hz (ANSI S3.41 Temporal Pattern) | .027 | .014 | .060 | .015 |
| Slow Whoop | 500-1200Hz Sweep (4.0 Sec. On/0.5 Sec OFF/Repeat) | .043 | .025 | .100 | .025 |
| Siren | 600-1200 Hz Sweep (1.0 Sec. On/Repeat) | .037 | .019 | .082 | .020 |
| HI/LO | 1000/800 Hz (0.25 Sec. On/Alternate) | .022 | .016 | .044 | .013 |
| Vibrating Chime | 700 Hz (1.0 Sec. Decay, Repeat) | .013 | .010 | .027 | .010 |

UL dBA Ratings

| Tone | HI/LO Volume | dBA Reverberant Ratings Per UL 464 | |
|-------------|--------------|------------------------------------|-----|
| | | 24V | 24V |
| Horn | HI | 92 | 98 |
| | STD | 86 | 92 |
| Bell | HI | 84 | 91 |
| | STD | 78 | 86 |
| March Time | HI | 88 | 98 |
| | STD | 82 | 92 |
| Code 3 Horn | HI | 88 | 98 |
| | STD | 81 | 92 |
| Code 3 Tone | HI | 84 | 94 |
| | STD | 78 | 89 |
| Slow Whoop | HI | 88 | 98 |
| | STD | 83 | 93 |
| Siren | HI | 89 | 97 |
| | STD | 83 | 92 |
| HI/LO | HI | 86 | 92 |
| | STD | 81 | 87 |
| Chime | HI | 78 | 88 |
| | STD | 71 | 82 |

Tone Selection

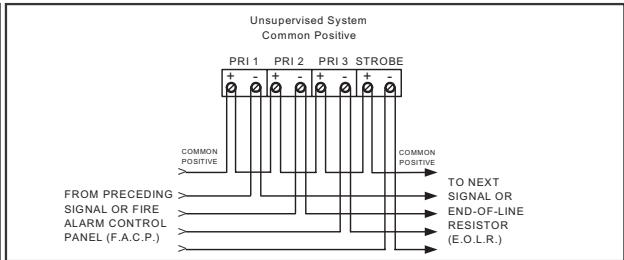
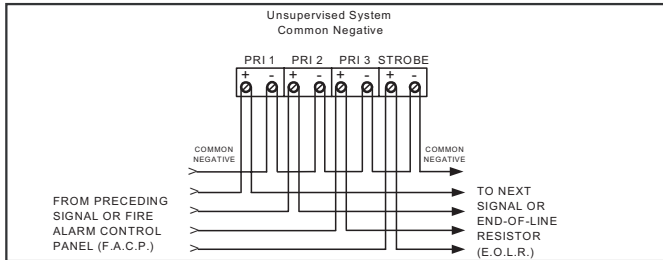
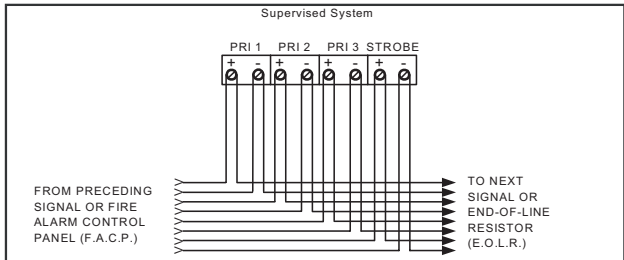
| PRI 1 | Tones | | Switch Settings | | |
|-----------------|-----------------|-----------------|-----------------|-------|-------|
| | PRI 2 | PRI 3 | POS 2 | POS 3 | POS 4 |
| Horn | Bell | Siren | 1 | 1 | 1 |
| Code 3 Horn | Siren | Vibrating Chime | 1 | 0 | 1 |
| Slow Whoop | March Time Horn | HI/LO | 0 | 0 | 1 |
| March Time Horn | HI/LO | Vibrating Chime | 1 | 1 | 0 |
| Code 3 Horn | Bell | Siren | 0 | 1 | 1 |
| Siren | Horn | Vibrating Chime | 0 | 1 | 0 |
| Bell | March Time Horn | Siren | 1 | 0 | 0 |
| Code 3 Tone | HI/LO | Siren | 0 | 0 | 0 |

Strobe Current Requirements

| Rated Current | Voltage | |
|---------------|---------|---------|
| | 24 VDC | 24 VFWR |
| Average | .080 | .081 |
| Peak | 190 | .216 |
| Inrush | .250 | .380 |

Wiring Diagrams

- Isolated inputs are provided for independent supervision and actuation of the three audible inputs.
- 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. (See table 4 for tone selection).
- Leave any unused inputs disconnected.
- For applications not requiring supervision: connect all positive (+) terminals to the power source. The negative (-) terminal for each signal will actuate the device.



Ordering Information

| Model Number | Input Voltage | Rated Candela | Average Strobe Current 24 VDC (AMPS) |
|-----------------|---------------|---------------|--------------------------------------|
| AMT-12/24-R-ULC | 12/24 | -- | -- |
| AMT-241575W-FR | 24 | 15/75 | .072 |

NOT TO BE USED FOR INSTALLATION PURPOSES.



Canada
 25 Interchange Way
 Vaughan, Ontario L4K 5W3
 Telephone: (905) 660-4655
 Fax: (905) 660-4113

U.S.A.
 4575 Witmer Industrial Estates
 Niagara Falls, NY 14305
 Toll Free: (888) 660-4655
 Fax Toll Free: (888) 660-4113

Web page: <http://www.mircom.com> Email: mail@mircom.com

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