

Approved Products List Criteria for Audible Message Devices

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Purpose Statement

This document lists the Approved Products List criteria for Audible Message Devices to be used in Alternate Pedestrian Routes for pedestrians with visual impairments.

Categories

Audible message devices (AMDs) will have two categories:

1. AMDs without a pushbutton
 - These devices will operate based on a proximity sensor; the audible message content will be given when the sensor is activated.
2. AMDs with a pushbutton and locator tone
 - These devices will have the capability of utilizing a locator tone for pedestrians with visual impairments to locate the pushbutton on the AMD. The pushbutton on the AMD will activate the audible message content. The AMD may continuously sound the locator tone, or the locator tone may be activated with a proximity sensor.

Criteria

Following are the necessary criteria for *all* types of AMDs to be on the APL:

- Compliant with the latest version of the ***Minnesota Manual on Uniform Traffic Control Devices*** and the ***Public Right-of-Way Accessibility Guidelines (PROWAG)***, published in November 2005
- Be weatherproof and fully operational between -20° F to +130° F and in a humidity range of 0-100% non-condensing
- Be able to be battery operated
- Proximity sensor shall be able to detect pedestrians from 15 feet away
- The ability to verbalize a custom voice messages for a minimum of 60 seconds
- Volume requirements
 - Volume measured at 3 feet from the AMD shall be 2 dB minimum and 5 dB maximum above ambient noise level in standard operations and shall be responsive to ambient noise level changes

- The ability to maximize volume at 100 dBA

Following are the additional necessary criteria for AMDs with pushbuttons and locator tones:

- The device shall be designed such that the pushbutton is within the Reach Ranges identified in PROWAG when the device is placed on level ground. In addition, the pushbutton shall be placed approximately at 42 inches (but no more than 48 inches) from the bottom of the device.
- Pushbuttons shall incorporate a locator tone at the pushbutton. Pushbutton locator tone volume measured at 3.0 feet from the pushbutton shall be 2 dB minimum and 5 dB maximum above ambient noise level and shall be responsive to ambient noise level changes. The duration of the locator tone shall be 0.15 seconds maximum and shall repeat at intervals of one second. The locator tone may be activated by a proximity sensor.

History

Version	Description	Date
1.00	Initial development and publication	01/16/2018

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