

**ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON
OPTIONS/INITIAL SETTINGS**

Polara Navigator Pedestrian Station features (first column) with factory defaults (second column). The items in **BOLD** are in the greatest need of standardization by the City of Minneapolis. All values should be reviewed for changes based on the signal configurations.

The following features & settings are effective with the Navigator Configurator v1.11. Use the Navigator Configurator to set up each accessible pedestrian signal.

<u>Name of Feature</u>	<u>Factory Setting</u>
-LOCATE VOL MIN	10%
-LOCATE VOL MAX	50%
-INFO MSG VOL MIN	60%
-STD WALK VOL MIN	40%
-STD WALK VOL MAX	70%
-EXT WALK VOL MIN	70%
-EXT WALK VOL MAX	80%
-VOL OVER AMBIENT	0Db
-WALK MODE SOUND	STD MSG
<p>None Cuckoo (north & south) Chirp (east & west) Standard Message (verbal WALK) Custom Message (verbal) Cuckoo + Standard Message Cuckoo + Custom Message Chirp + Standard Message Chirp + Custom Message</p>	
-WALK SOUND PAUSE (between sounds)	0.5 SEC
-WALK SOUND TRIG	ANY PUSH
<p>Always ON (generate sound when ever walk comes up) Any Push (generate sound when button pushed) Extended Push (generate sound when button held in)</p>	

-SOUND/VIBration TIMER

FULL WALK

Select 1,2 or 3 repeats of walk message,
length of time (4-50 sec) that message
plays of leave it playing for the full walk.

For pretimed signals, the walk message should be displayed for the
full walk. For semi-actuated signals, the main street green walk
message should be displayed for at least 20 seconds and the
actuated walk should be displayed for the full walk.

-SOUND/VIB RETRIG

BUTTON PUSH

Name of Feature

Factory Setting

-CANCEL ON CLEARANCE

YES

-CLEAR MODE SOUND

TONE 1

None

Tone 1

Tone 2

Tone 3 (custom words or tone)

Countdown (verbal count down)

-CLEAR TONE PAUSE (between sounds)

1 SEC

-LOCATE SOUND (while at rest)

TONE 1

-LOCATE TONE TIME

1 SEC

(0.5 to 3 seconds between tones)

-PLEASE WAIT MSG

NO

Yes = "Wait"

No = locate tone louder

-DIRECTION MSG *

NORTH

"Traveling North"

"Traveling South"

"Traveling East"

"Traveling West"

"Traveling North East"

"Traveling South East"

"Traveling South West"

"Traveling North West"

*** Only shows up when you hold button down for over 1 second**

-INFO MESSAGE **NONE**
None
Direction (i.e. "North")
Custom
Custom + Direction

-CANCEL ON WALK YES

-EXT PUSH TIME **0 SEC**
Variable from 0.5 to 3 seconds

-SECOND LANGUAGE NO
Hold button until second language heard

-THIRD LANGUAGE NO

The Navigator Configurator is a "hand held remote" which is used to program each accessible pedestrian signal. To use it, stand a few feet in front of the device and point the infrared LED (end of the remote) at the device sensor (a clear ¼" round window just above the push button). When the remote is turned ON, it will start to communicate with the device. You will see a code show up on the front of the remote. The code will be AAAA. Push the down arrow five times to move the cursor "past the end of the code". NOTE: If you press the right and left arrows, the code will change. Once past the code, the remote will acknowledge that the codes match and ask if you wish to change the code. **SELECT NO!**

Once the code recognition is done, you will have to press READ SETTINGS (we need to use the POLE menu buttons) to see what parameters are in the device that you are trying to program. If you move the remote control out of alignment to the device, it will loose comm for a second. Just re-aim the remote and pick up communications again.

With the UP and DOWN arrows you can run thru the features. The right and left arrows allow you to change the settings within the features. As you press new items, they will be sounded out. An example would be changing the volumes...as you increase the volume, its related message (or tone) will play with the changed volume. Remember, that features that you are changing are **ONLY** in the remote's memory. You have to press **UPDATE SETTINGS** on the remote to update the new parameters to the device before it will change its operation. Also note that the device will go silent while you are talking to it. It will resume normal operation about 40 seconds after you stop communicating with it or press the power key on the remote.

The following pages contain detailed explanations of each of the features listed above.

VOLUME SETTINGS

The volume levels are entered as a percent from 0% to 100%. The volume difference between 0% and 100% is 60dB. The steps are 5% which represents a volume change of approximately 3dB.

LOCATE VOLume MINimum

This function adjusts the minimum level that the LOCATE Sound will be played at. The Auto Volume adjustment will not go below this setting.

This volume level is adjustable from 0% to 75% of the maximum volume output in 5% steps. (16 choices) (Default = 10%)

Pressing the MENU DOWN button at the desired choice will remember your choice and move on to the next menu item. You can also push Menu Up key and work backwards through the list.

LOCATE VOLume MAXimum

This function adjusts the maximum level that the LOCATE Sound will go up to. The Auto Volume adjustment will not go above this setting. This volume level is adjustable from 25% to 100% of the maximum volume output in 5% steps. (16 choices) (Default = 50%)

INFORmation MeSSaGe VOLume MINimum

This function adjusts the minimum level for the information message. The message will never play at less than this level, which can be set from 0% to 100% in 5% steps. (21 choices) (Default = 60%)

STandarD WALK VOLume MINimum

This function adjusts the minimum volume level for the WALK Sound. The Auto Volume adjustment will not go below this setting. This volume level is adjustable from 0% to 75% of the maximum volume output in 5% steps. (16 choices) (Default = 40%)

STandarD WALK VOLume MAXimum

This function adjusts the maximum volume level for the WALK Sound. The Auto Volume adjustment will not go above this setting. This volume level is adjustable from 25% to 100% of the maximum volume output in 5% steps. (16 choices) (Default = 70%)

EXTended (Push) WALK VOLume MINimum

This function adjusts the minimum volume level for the WALK Sound following an extended push. The Auto Volume adjustment will not go below this setting. This volume level is adjustable from 0% to 75% of the maximum volume output in 5% steps. (16 choices) (Default = 70%)

EXTended (Push) WALK VOLume MAXimum

This function adjusts the maximum volume level for the WALK Sound following an extended push. The Auto Volume adjustment will not go above this setting. This volume level is adjustable from 25% to 100% of the maximum volume output in 5% steps. (16 choices) (Default =80%)

VOLume OVER AMBIENT

This function changes the PBS sensitivity and response to ambient sound. The higher the setting, the louder (with less ambient noise) the output volume will play relative to the measured ambient sound pressure, but will be constrained within the set Minimum and Maximum settings. This compensation function is adjustable from 0dB to 20dB over ambient in 5dB steps. (Default = 0dB)

WALK PHASE SOUND OPTIONS

WALK MODE SOUND

This function selects the preferred sound played during the Walk phase.

The choices are as follows:

NONE, CUCKOO (North/South), CHIRP (East/West), STandarD (Verbal Walk) MesSaGe, CUSTOM (Verbal Walk) MesSaGe, CUCKOO + STandarD (Walk Message), CUCKOO + CuSToM (Walk Message), CHIRP + STandarD (Walk Message), CHIRP + CuSToM (Walk Message). (Default = STandarD (Walk) MesSaGe)

WALK SOUND PAUSE

This function selects the length of silence between the WALK Sounds.

The choices are as follows:

0.5 second to 3 seconds in 0.5 second steps and 3-10 seconds in 1 second steps. (Default = 0.5 Second)

WALK SOUND TRIGger

This function selects the condition that will play Walk Sounds at the next pedestrian walk cycle. The choices are:

- ALWAYS ON (Recall Mode Conditions – Plays every walk cycle)
- ANY PUSH (Short or Extended Button Push)
- EXTended PUSH (Extended Push Only)

Note: Do not use Extended Push on crosswalks set to rest in walk. If a blind person does not push and hold the button, and if a car never triggers the cross street, they could not get a walk indication.

(Default = ANY PUSH)

SOUND/VIBration TIMER

This function selects the number of times (1, 2 or 3) or the length of time in seconds the WALK Sound or Message is played. Use this function to limit the sound time for Rest in Walk situations.

Note: Do not use 1, 2 or 3 if PBS revision is 1.10 or earlier.

The choices are:

FULL WALK (Duration)

Three options: 1, 2 or 3 for walk message to play 1, 2 or 3 times if walk time allows... or for a time period of 4 SECONDS to 50 SECONDS (which allows setting exact play time for time greater than 4 seconds)...or the user can have the message repeated for the FULL WALK time.

(Default = FULL WALK)

SOUND/VIBration RETRIGger

This function is primarily used when Menu Item SOUND/VIB(ration) TIMER timeout is not set for FULL WALK and is intended for use in intersections set to Rest in Walk. It is also important in the following situation: If the walk sign is able to turn on without a button push (Recall Mode) and the Walk Sound Trigger option is NOT set to Always On, the locate tone will continue into the walk phase, just like a Rest in Walk timeout. The choices below determine the response to a button push while the locate tone is playing during the walk phase. The choices are:

(A New) BUTTON PUSH – Typically used in Rest in Walk situations. After initial timeout, sound restarts immediately with button push as long as crosswalk is still in Walk Phase.

(A) NEW WALK (Phase) – After timeout, a new WALK Phase is required before the next WALK Sound or Message is played which is also complemented with the vibrator. The NEW WALK is intended for applications in Canada where a supplemental triggering (relay) system is used to force the controller to cycle. If this supplemental system is not present, do not use NEW WALK option.

(Default = BUTTON PUSH)

CANCEL ON CLearRaNCE

This function gives the choice to cancel or complete the WALK Sound or Message when the intersection timing changes from the Walk Phase to the Clearance Phase. This function is primarily applicable where walk messages are quite long.

WARNING: It must be carefully examined before turning this function off since it can falsely extend the Walk Cycle Sounds into the Clearance Cycle time. Regulations may not allow this function so changing the default must be carefully considered.

The choices are: YES, NO

(Default = YES, cancels walk message upon start of clearance phase)

CLEARANCE PHASE SOUND OPTIONS

CLEARance MODE SOUND

This function allows the choice of a few standard Clearance Sounds, a customer specified tone or verbal Clearance Countdown. Note: The Countdown function is tied into the language options. The Countdown language will be in the same language the pedestrian selects when performing an extended push.

The choices are: NONE, TONE 1, TONE 2, TONE 3 (CuSToM), COUNTDOWN (Default = TONE 1)

CLEARance TONE PAUSE

This function selects the length of silence between the CLEARANCE Sounds. The choices are as follows:

STANDARD, 0.5 SECONDS TO 3 SECONDS IN 0.5 SECOND STEPS (Default = STANDARD, 1 sec)

- **DON'T WALK PHASE SOUND OPTIONS**

LOCATE SOUND

This function allows the choice of a few standard LOCATE Sounds or a customer specified tone.

The choices are:

NONE, TONE 1, TONE 2, TONE 3 (CuSToM)
(Default = TONE 1)

LOCATE TONE TIME

This function selects the start to start repetition time of the LOCATE Sounds. The following 11 choices are as follows:

STANDARD, .5 SECOND TO 5 SECONDS IN .5 SECOND STEPS
(Default = STANDARD, 1 sec)

PLEASE WAIT MeSsaGe

This option, when set to YES, replaces the locate tone following a button push with a verbal "WAIT", which plays every four seconds. This function is also supported by the second and third language options. Following the next Walk/Clearance Cycle, the normal locate tone resumes.

(NOTE: You cannot use this function if Walk sound trigger is set to extended push.)

The choices are: YES, NO
(Default = NO)

- **INFORMATIONAL MESSAGE OPTIONS**

DIRECTION MesSaGe

This function can be setup to give the visually impaired pedestrian more information about the direction they are traveling without having to use a Custom Message. For example if there is no custom Informational Message, an extended push can be selected to say "Traveling North". The word "Traveling" will precede the following choices:
NORTH, NORTHEAST, EAST, SOUTHEAST, SOUTH, SOUTHWEST, WEST, NORTHWEST
(Default = NORTH)

INFormational MESSAGE

It is typically a custom message that gives visually impaired pedestrians information about where they are and where they are heading.

The following choices are:

NONE, DIRECTION, CUSTOM, CuSToM + DIRection
(Default = NONE)

CANCEL ON WALK

This function gives the choice to cancel or complete the INFORMATIONAL MESSAGE immediately when intersection timing changes to the Walk Phase while playing the INFORMATIONAL MESSAGE.

WARNING: It must be carefully examined before turning this function off since it can falsely shorten the Walk Cycle.

The choices are: YES, NO

(Default = YES, information message stops when WALK begins)

EXTended PUSH TIME

This function allows the EXTENDED PUSH TIME to be changed. This is the amount of time the Button on the PBS has to be pressed and held before enabling the Extended Push functions.

The choices are: 0-6 SECONDS IN .5 SECOND STEPS.

(Default = 2.5 Seconds)

- **SECOND & THIRD LANGUAGE OPTIONS**

SECOND LANGUAGE

This function allows a SECOND LANGUAGE to be played for the Informational Message, Walk Message and Countdown. This language is a custom option. For example if the second language has been programmed in Spanish and enabled, the pedestrian can access the language options by performing an Extended Push. The primary language would be stated first then the secondary language. "English", pause, "Spanish" (spoken in Spanish), pause, "English", etc.... The pedestrian

releases the button after they hear the language of choice. The Informational Message is immediately played in the selected language. The Walk Message and Countdown will also be played in the selected language. Walk phases following this walk cycle will revert to the default primary language.

The choices are: YES, NO
(Default = NO)

THIRD LANGUAGE

This function allows a THIRD LANGUAGE to be played for the Informational Message, Walk Message and Countdown. All three of these messages are custom options. For example if all three of these custom messages have been programmed, the primary in English, the second in Spanish and third in Chinese. The pedestrian can access the language options by performing an Extended Push. The primary language would be stated first then the secondary language, then the third language.

"English", pause, "Spanish" (spoken in Spanish), pause, "Chinese" (spoken in Chinese), pause "English", etc.... The pedestrian releases the button after they hear the language of choice. The Informational Message is immediately played in the selected language. The Walk Message and Countdown will also be played in the selected language. Walk phases following this walk cycle will revert to the default primary language.

The choices are: YES, NO
(Default = NO)

Help Function

The Help function is quite basic, but can get you familiar with what all the buttons do on the Configurator keypad. Press the HELP button at any time to get a description of what a particular button does. The button description will be scrolled on the display. Pressing HELP button again will return the display back where it was prior to pushing the HELP button.

Display Contrast Adjust

Press the MENU UP & MENU DOWN button simultaneously. Then press left arrow to dim the display and press right arrow to brighten display. Press any other buttons to exit the Display Contrast screen. The change will be stored permanently or until changed again.

Restore Factory Settings

If for some reason you need to restore the factory default settings, turn on the Configurator and establish communications with the PBS. Enter Security Code and Menu Down through the ID number. You will get a "PRESS EITHER READ SETTINGS" message. To restore the factory settings, press Update Settings for push button station.

General Configurator Operational Notes

The Configurator has an automatic shut off function. As long as the Configurator has an established Communication connection with the PBS, the Configurator will not shut off. The Auto Shut Off timer is reset every time there is Configurator Communications or any button is pressed. If neither of these conditions happen within a 30 second period, the Configurator will Auto Shut Off. The Configurator may be shut off manually by pressing the POWER button. This gives a YES/NO option to power off. This function is active after you see a "PRESS EITHER READ SETTINGS". Selecting NO will return to "PRESS EITHER READ SETTINGS". You may menu up or down through the choices as many times as needed, but nothing will be saved, unless the UPDATE SETTINGS button is pressed!

The Configurator communication link can be broken for up to 15 seconds, after which the PBS will return to normal operation and all menu choice setting changes within the Configurator will be lost.

CONFIGURATOR BROWSE MODE

The Browse Mode is simply to allow a user to acquaint themselves with the Configurator at their desk or anywhere. To enter this mode just power up the Configurator. You will see the following messages: "SEARCHING FOR POLE UNIT..." "NO COMM LINK", "BROWSE MODE" and "PRESS EITHER READ SETTINGS". At this time you should press the Push Button Station Read Settings button. You can scroll through the menus and choices to familiarize yourself with the powerful capabilities of the Navigator APS system.