



DS100 Series Audible Pedestrian Signal (APS)

INSTALLATION GUIDE

General Description

Up to 4 Unique Sounds can be selected with the Sound Select Switch. A **Sound Selection & Setup Quick Reference Chart** is included with each Unit. Custom Sounds are available per customer request.

Volume Adjustment

The volume is factory preset for 66dB @ 1m sound output, which reflects minimal street activity (noise). As the ambient noise rises, the sound output automatically increases proportionately to a maximum of 90dB @ 1m.

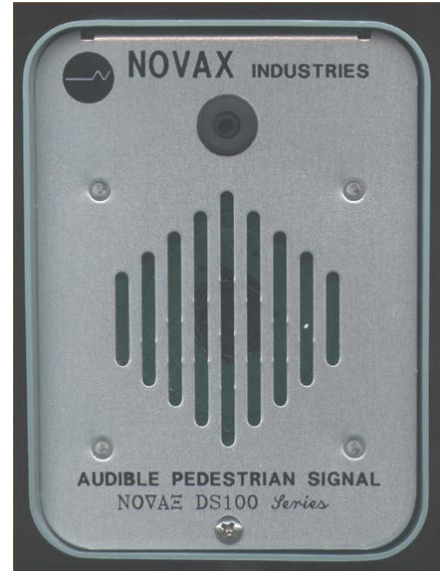
The volume adjustment on the faceplate facilitates simple installation. Turn the control clockwise to increase the volume.

If the volume must be altered, it is best adjusted during a time of low street noise.

Installation

Refer to Circuit Board Illustration overleaf.

- 1) Remove DS100 from packaging and check for possible damage. If damaged, obtain an RMA from Novax and return for replacement.
- 2) Check Model Number on underside of Unit for correct type and options. Each Unit is factory-set to Chirp. To change sound type, unscrew faceplate and adjust Sound Select Switch per the DIP Switch Chart on inside of the enclosure. Re-attach Faceplate.
- 3) Drill a hole suitable for a 1/2-Inch conduit into top of Pedestrian Signal Head.
- 4) Place APS wires through hole, then mount swivel fitting using lock washer and nut provided. Loosen swivel-adjust lock nut and orient head so that it is tilted forward approximately 10 to 20 degree's in direction of crosswalk. Tighten all fittings.



- 5) Terminate APS Wires in Pedestrian Head as follows:

- Blue	Walk Signal
- Orange	Don't Walk Signal (Refer To Note 1)
- White	Neutral
- Green	Ground/Chassis
- White/Black	Input Common (Refer To Note 2)
- Black	Input (Refer To Note 2)

(Note 1) Only required if Optional BAT board is installed.

(Note 2) These 2 wires are for Sound Inhibit (24VDC or 120VAC) or Button Actuated Timer, (BAT) Option. Connect as follows:

- 24VDC for Model DS102A/104A 24 Typical
- 120VAC for Model DS102A/104A 120 Typical
- Ped Button Wires for Model DS102A/104A BAT

- 6) Check operation of APS with Walk Signal. No other adjustment should be necessary.
- 7) If required, use a small blade screwdriver to reset Volume Adjust. A clockwise rotation will increase volume.

Note: Adjustment should be made in a relatively quiet environment.

Outputs

PARAMETER

Sound Type
Walk Direction
Standards

SOUND #1

Bird Call "Chirp"
East - West
Per MUTCD Standard

SOUND #2

Bird Call "Cuckoo"
North - South
Per MUTCD Standard

SOUND #3 *

Canadian Melody
East West
Per TAC Standard

SOUND #4 *

Percussive Tone
Optional
Per MUTCD Standard

DS100 Series Circuit Board

Volume Adjust

Used to Set Minimum Required Volume Level. Set "During Minimal Street Activity Only" Turn Clockwise to Increase Volume

Sound Select Switch

Set Switch # (1-4) which corresponds to Desired Sound ON.
Switch 1 = Chirp
Switch 2 = Cuckoo
Switch 3 = Canadian Melody
Switch 4 = Percussive

Default

Switch 5 = Auto-Repeat, ON
Switch 6 = Play/Rec Mode, OFF (1)
Switch 7 = Record Enable, OFF (1)
Switch 8 = Not Used, OFF

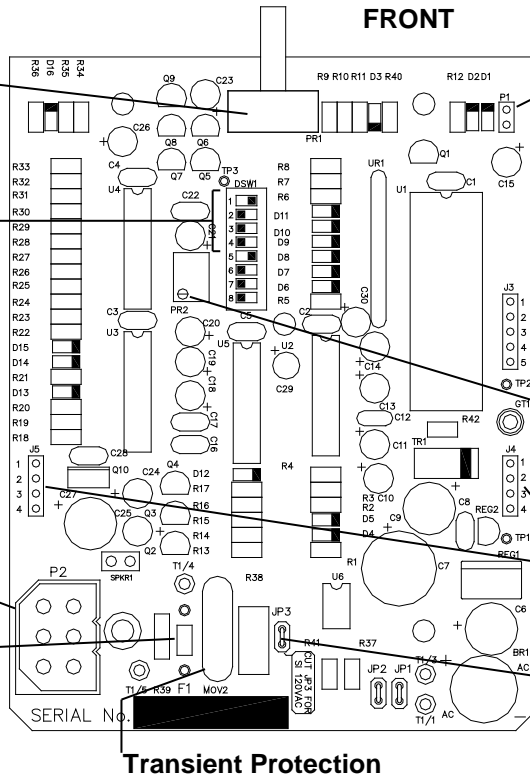
Power Connector

115 VAC, 10 Watts (Maximum)

Fuse

1/4 A
125VAC
Littelfuse PN 251.250
or Equivalent

(1) Optional Feature, Contact Novax Industries



FRONT

Audio Input (1)

For Recording New Sounds or Voice
-Amplitude: 0.5V Peak-Peak Max.
-Impedance: 22K ohms

Microphone Input (1)

Connector For Optional Microphone Adaptor Interface for Sound & Voice Recording

Audio Gain Control

PR2 Counter Clockwise to Decrease Gain (Lessen Response to Traffic Noise) -25 Turn Control

Future Use

Expansion Ports For Add On Modules

Sound Inhibit

Jumper JP3 is Cut for 120 VAC Option (SI 120VAC)

Transient Protection
Common Mode

Novax DS100 Series PCB APS Specifications

Electrical:	6 wire 20 Gauge (120VAC from Pedestrian Indicator)
Power:	115VAC ±20VAC, 60Hz, 10 Watts (Maximum).
Transient Protection:	Common Mode and Fuse
Dimensions:	cm: 13L x 10W x 13H (5" x 3.75" x 5")
Output:	Infinitely adjustable from 0 to 90 dB @1 meter. Output self-adjusts to +5 dB above street noise level, up to a maximum of 90 dB.
Color:	Standard ASA 61 Grey; Other Colours Customer Specified.
Environment:	-37° C to +74° C (-35° F to +165° F); 40-90% relative humidity
Enclosure:	Weather-resistant Housing. External Adjustments-no dismantling required.
Loudspeaker:	Water proof, UV resistant, vinyl impregnated cloth.
Mounting:	Positive Lock Heavy-Duty Swivel. (1/2-Inch Mounting Hole)
Weight:	Approximately 0.3 Kg (0.75 lbs.).
Sound Conformance:	Canadian Manual of Uniform Traffic Control Devices (A6.10.3)
Certification:	Intertek Testing Approved to CSA C22.2

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