

Electronic Warning Signs (EWS)

Introduction

Permanent static road signs have proven to be ineffective over long periods of time for motorists passing the same sign on a regular basis.

Harding Traffic's universal Electronic Warning Sign (EWS) features two stage activation so when the "in built" radar sensor detects a vehicle, the LED display will activate, drawing the drivers' attention to the hazard ahead, allowing the driver to react accordingly. If the vehicle speed is over the set upper threshold the sign will also display SLOW DOWN.

The EWS can be reconfigured in full or in part to change the image or message at an existing site location or it can be fully reconfigured and can be moved to a completely new location.

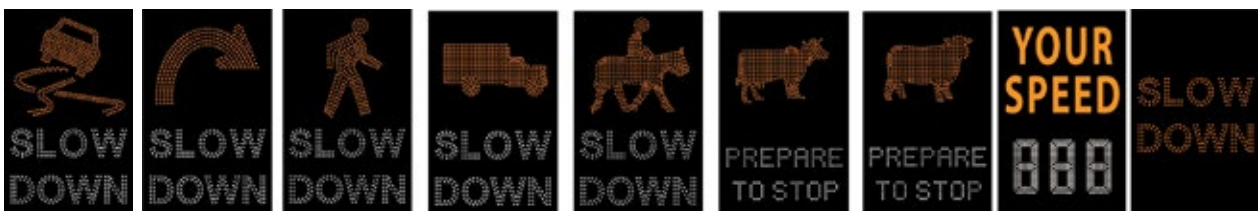
In addition, the EWS can also be reconfigured as a Speed Indication Device (SID) to display vehicle speed back to the driver, helping to reduce excessive speed in high risk areas.



*Makarewa Bridge, State highway 99
South Island*

Features and Benefits

- **NZTA compliant** - Designed to meet NZTA Traffic Note P32
- **LED technology** - Low power consumption and low maintenance cost
- **Universal Amber & White LED Display** - Images and messages can be reconfigured on site and/or sign
- **Inbuilt radar sensor** - Critical component that detects approaching vehicles
- **Flexible power options** - Can be solar powered or 230V mains powered
- **Vehicle Activated with two stage activation** - Hazard symbol activates only on vehicle approach. Additional message e.g.. SLOW DOWN activates upon excess speed providing additional feedback to the driver so they can react accordingly
- **Built in data logger** - Records sign activation date and times along with traffic speed data
- **Optional Alarm** - The system can send a SMS text message to alert supervisor of an issue
(Ongoing data plan required)
(Tamper/ Faults/ Power outage)



Sign Specifications

HTL Code	MV EWSFMC
LED lights	5mm diameter LEDs. White (590nm), Amber (590-610nm)
Pixel Pitch	16mm
Viewing Angle	30 degrees
LED Colour Specification	EN12966-1 9.3.5 & table 2 or table 3 in the EN12966-1
LED Optical Performance	EN12966-1:2005
LED Display Flicker	EN12966-1:2005 Section 7.7
LED Life Expectancy	TR-2136 and / or EN 12966
Enclosure Rating	IP55
Cabinet Dimensions	972mm wide x 1604mm high x 150mm deep (Portrait)
LED Display Dimensions	768mm wide x 1280mm high
Cabinet Colour	Powder coated black front with aircraft grey on side and rear
Cabinet Material	Aluminium
Polycarbonate Face	4mm Polycarbonate front face built into door
Sign Maintenance	Front access
Weight	72 Kg
Sign Design Life	10 years
Warranty Period	12 months
Amber Light Sensor	Yes - Incorporated into the LED display - to EN12966-1:2005
Corner Wig-Wag Lights	No - Optional Extra
Wig-Wag Flash Rate	1Hz
Operating Voltage	12v DC solar option or 230V AC mains option,
Operational Current Draw	2.2 Amps max
Standby Current Draw	0.5 Amps
Internal System Voltage	5v DC
Datalogger	Yes
Datalogger file format	CSV (Comma Separated Value)
Datalogger capacity	64,000 events
Datalogger recorded values	Day, Month, Year, Hour and Minute of Activation, Speed Data



*Athol, State Highway 6
South Island*

Radar Specifications

Radar Type	K-Band Doppler
Radar Range	360m typical detection range
Input Voltage	9.6V DC to 18V DC (21v DC maximum tolerant)
Power Consumption	28mA minimum to 34mA maximum
RF Power	5mW
Radar Frequency	24.125GHz centre +/- 25Mhz
Accuracy	+/- 0.5%
Operating temperature	-40 to 85 degree Celsius maximum
Radar Beam Angle	11 degrees x 11 degrees
Radar Polarization	Linear
Minimum mounting height	1500mm



*Lindis Pass / Tarras Rd
State Highway 8
South Island*

Datalogger Specifications

Datalogger capacity	60 days (based on 5 minute log bins)
Speed bin resolution	5 km/h
Speed measurement units	Km/h or Mp/h
Minimum speed detection	10 km/h
Maximum speed detection	159 km/h
Traffic direction	Approaching or Departing (can be configured to one or the other)
Date and Time	Onboard clock
Battery backup	Included to retain all settings and traffic data
PC interface type	Ethernet Cable
PC operating system	Windows 2000, XP, Vista, 7 or above required
Datalogger software	Stats Analyzer Software provided
Data export	Raw data or to Excel format