# Speed Indication Devices (SID)

## Introduction

Harding Traffic's speed indication device (SID) highlights vehicle speed and aims to help reduce vehicle speed, improve driver behaviour and provide a safer environment for drivers, cyclists and pedestrians.

Our SID unit is designed to detect vehicle speeds and display them on the highly visible LED screen. If the vehicle is faster than the programmed threshold, the sign will automatically display the words SLOW DOWN.

Due to the compact & lightweight design, the sign can be relocated to different sites periodically, reducing costs and keeping the sign "effective". The SID sign can be mains or solar powered and pole or wall mounted.


*Graymont Quarry, Otorohanga*
*North Island*

## Features and Benefits

- **LED Technology**
- **Inbuilt radar sensor**
- **Vehicle Activated**
- **Flexible power sources**
- **Compact & Lightweight**
- **Downloadable Data**
- **Two Stage Activation**


*HTL SID Sign complete*
*with static sign*

## Upgrade Option

3M Driver Speed Feedback Signs can be upgraded by retro-fitting the speed display with our LED SID unit.

Please call us to discuss


*Original*
*3M Sign*


*Upgraded*
*3M Sign*

## Sign Specifications

| | |
|---|---|
| **HTL Code** | MV CZSIDC |
| **LED lights** | 5mm diameter LED's 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** | 610mm wide x 536mm high x 180mm deep |
| **LED Display Dimensions** | 512mm wide x 256mm high |
| **Cabinet Colour** | Powder coated black front with aircraft grey on side and rear |
| **Cabinet Material** | Aluminium |
| **Polycarbonate Facier** | 4mm Polycarbonate front face built into door |
| **Sign Maintenance** | Front access |
| **Weight** | 13Kg |
| **Sign Design Life** | 10 years |
| **Warranty Period** | 12 months |
| **Ambient Light Sensor** | Yes - Incorporated into the LED display - to EN12966-1:2005 |
| **Operating Voltage** | 12-24 V VDC solar option or 230 V AC mains option |
| **Operational Current Draw** | 0.5 A @ 12 V dc |
| **Standby Current Draw** | 150 mA @ 12 V dc |
| **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 |


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## 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 |

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## 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 |
| **Date and Time** | Onboard clock |
| **Battery backup** | Included to retain all settings and traffic data |
| **PC interface type** | RS232 |
| **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 |