

Single Line Message Sign (SLMS)



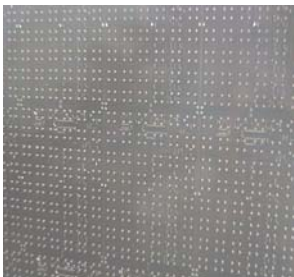
The Single Line Message/Warning Sign was designed to offer ROADSIDE, PORTABLE Trailer or VEHICLE MOUNTED advanced warning to motorists of road incidents or hazards and the possible route deviations. The sign uses an LED panel of 8 characters with multiple message frames to inform the motorists of the situation/problem ahead and then the necessary path change. The SLMS displays messages in a single line of text, often multi-lined messages are broken up into segments or frames that are displayed with a user defined delay in between messages suitable to the viewing potential of the motorist.

The Single Line Message/Warning Signs may be mounted on either 2 freestanding trestle legs, lightweight trailer or attached to the top of a truck. The power supply for the SLMS is either from an internal 12 volt battery or external source. The SLMS is easy to assemble on site and weighs maximum 20 kg. The SLMS takes 2 persons approximately 5 to 6 minutes to assemble onto the trestle legs on site. The rugged design makes the SLMS more resistant to the effects of physical shock and weather.



SLMS features

- Portable, versatile and user friendly
- Roadside : quick and easy to establish operation
- Truck mounted configuration controlled from within vehicle cabin
- Trailer mounted warning sign – rotate and select message
- Optional speed radar integrated with VMS operation
 - detects vehicle travelling over preset threshold, interrupts current message and displays 'warning excessive speed' before returning to current message display.
- Low current consumption
 - < 1 amp maximum characters at full brilliance
- Easy on site setup
 - taking 2 persons approximately 5 to 6 minutes to assemble on site with trestle legs
- Easy to create messages using easy to use Microsoft Notepad
- Messages are transferred to the sign via a compact flash card
- Power supply internal or external 12 volt battery
 - option for solar panel charging





Easy to create user messages

The user messages may be configured using Microsoft Notepad. The messages may be single or multi frame. A multi frame message can incorporate user defined 'On' time and 'Off' time (period between frames). A single frame message has a steady display or user configured 'Off' time, the period is set in tenths of a second. Messages are created in Microsoft Notepad and transferred to compact flash disk. The compact flash disk is inserted into the handheld controller. The hand held controller allows the user to select and view the message before requesting to display the message. Operations are simple focussed around a scroll UP & DOWN key and a DISPLAY ON & DISPLAY OFF key.

A message file is individual messages which are composed of a frame or a sequence of frames. The file should be created in TXT mode/format. For example, each line of the TEXT file is a unique complete message. If there are 20 lines then there are 20 messages in the display message file. Each message is located by scrolling through the individual line elements. A line is composed of either one or multiple frames therefore the basic record is a single frame.

Format of a frame is

[display data] time

where display data is up to 9 characters, and time is 1 to three characters, that is, 01 or 1 or 9 or 45 and represents the time the frame is displayed for in 1/10ths seconds, that is, 150 = 15 seconds.

- any other characters after these will be ignored
- if no time is written it will default to a value of 2 (1 second)
- if no frame is written the frame will be ignored as it is invalid
- must be a display time increment or it will default to 1/10th second
- must be at least one valid frame (that is, message with one frame)

Format of a message is thus

[display data]time [display data]time [display data]time etc (a frame is [display data]time)

Messages can be 1 to 16 frames long, any frames after this will be ignored

For a constant message something like: *[const.msg]10* will be appropriate.

Format of the entire file is

line 1> [display data 1]time [display data 2]time [display data 1]time

line 2> [display data 1]time [display data 2]time [display data 3]time

Line 3> [display data 1]time [display data 2]time [display data 3]time

Line 4> [display data 1]time [display data 2]time

each line is considered a new message so the messages should all be on sequential lines and each display data record is a frame.

Specification

Physical

- Panels: 8 x 5 x 7 4 LED pixel alpha numeric panels single row
- Display Size: Height: 400 mms Width 2100 mms Depth 150 mms
- Display weight: < 20 Kgs (including Gelcel 12 volt battery)
- Suitable trailer dimensions: Length 1800 mm, Width 1200 mm
- Weight: < 20 Kgs vehicle, trailer or portable road based trestle leg mounting

Power supply

- Operational voltage: 12 volts DC
- Current consumption: < 1 amp

Display photometrics - light output and intensity

- Yellow in colour as per CIE 1931 Chromacity (590 nms)
- Type of LED: Yellow AlinGap, output luminous intensity 3.2 CD/LED (daylight operation)
- Daylight mode = LEDs can be brightened to increase visibility
- Night time mode = LEDs can be dimmed to eliminate "flaring" (overly bright) and reduce current consumption
- Dimming facility – 8 levels, maximum output at 1100lx