

SUNRAY SOLAR 290



Solar Powered Full Matrix Portable Message Sign



Custom Graphics



Optional fold-down array

National Signal continues to design the finest in PCMS applications using the latest in LED technology. The Sunray™ Street Machine is another fine addition to our Display Products brand of traffic message products. Designed for use on city streets or highways, it is easily transported and simple to operate, providing a variety of bright, multiple message and communication features to meet the most stringent requirements.

- **Designed for city/town or highway usage.**
- **Trailer mounted.**
- **AllnGaP LED technology.**
- **Hundreds of pre-programmed messages, MUTCD symbols, and operator-created messages.**
- **Optional electric solar panel tilt feature.**
- **Electro-hydraulic sign panel.**
- **Environmentally friendly.**
- **Cost effective.**
- **Reliable and easy to operate.**
- **NTCIP compliant.**
- **Optional Speed Display Feature**

Signal Panel:

- 3 line by 12 character maximum depending on font.
- Full Matrix LED - 28 pixels high by 48 pixels wide.
- 4 LEDs per pixel with 1.5" x 1.75" pixel spacing.
- 590 nm (amber) light output LED AllnGaP technology.
- Store over 300 pre-programmed permanent messages, MUTCD symbols, and operator-created messages.
- Moving arrows, chevrons, and other graphics with auto-centering of messages.
- Unaffected by RF interference.
- 6 fonts from 7.5" to 36" character height.

Sign panel 48" high x 96" wide
Sign window 1/8" UV stabilized, polycarbonate
with matte finish
Legibility 1200 ft. (367 m)
Dimming..... Manual or Automatic
Photoelectric cell Mounted away from extraneous
light.

Specifications subject to change at any time without notice. Copyright 2007 National Signal, Inc. All rights reserved. Printed in the United States.

NATIONAL
signal incorporated

Bright Ideas From A Bright Company

SPECIFICATIONS

Trailer Construction

Width across fenders.....	68"
Length w/draw bar	30"
Length w/o draw bar.....	112"
Height sign up	144 "
Height sign down.....	81"
Weight	1800 lbs
Tire size.....	ST205/75-D15 load C
Wheel size	15"
Axle capacity	2000 lbs
Suspension	Leaf spring
Color.....	Orange, optional other colors
Hitch.....	2" ball class II 3500 lb capacity
Frame.....	3" x 3" x 1/8" wall tubing
Deck material.....	1/8" steel tread plate
Fenders.....	formed steel
Draw bar	2.5" x 2.5" x 3/16" wall steel
Jacks	(4) slide type plated, (1) swing type
Lighting.....	Stop, turn, and signal, side reflectors, four wire disconnect for towing
Lift mechanism.....	Electro-hydraulic, optional electric lift for solar array



Batteries and Solar collectors

Batteries.....	6v or 12v deep cycle with varying options
Solar collector	Crystalline silicon auto erecting
Battery charger.....	Fanned cooled, 45A (75A optional), external plug
Battery enclosure	Lockable, ventilated, acid resistant, steel, powder coat finish orange and other colors

Control

Type.....	Proprietary embedded fully NTCIP compliant
Password Protection.....	one level
LCD	4 lines, 40 characters per line, backlit
Messages	50 user programmable(4 pgs ea.), 9 linkable, 300 pre-programmed including MUTCD symbols and arrows

Dimming.....	31 levels, photocell controlled, manual or automatic
Remote comm.....	Cellular ready
Message scheduling.....	36 events per year

Display

Pixel matrix	28 rows by 48 columns
Character size.....	6 fonts from 7.5" to 36", 3 lines x 12 characters, graphics capable
LED's	590nm amber, 4 per pixel
Angularity	25° total
Legibility	1,200'
Brightness	Manual/automatic 31 levels
Photo Sensor.....	Shielded from extraneous light
Enclosure	48" x 96" Aluminum, finished powder coated black.
Character window.....	1/8" UV stable polycarbonate RF Interference...unaffected
Display height.....	48"
Display width	96"

Radar Detector (Optional)

Type.....	One true doppler radar
Speed range	5-200 Mph or km/h
Distance range	1/4 to 1/2 mile
Band type	K, 12°
Operating voltage.....	10.8 vdc to 16.8 vdc
Operating temperature...	-22F to +140F (-30C to +60C)
100% relative humidity at	+99F (+37C) non-condensing
Accuracy...+/-	1 mph
Microwave source	Gunn-effect diode
Beam width	12 +/- 1

Options

- Intellistat provides a variety traffic statistics that can be displayed or printed in graph or raw data format. Includes software and pneumatic tube for vehicle count
- Strobe light for over speed
- Handheld radar upgrade
- Motion alarm
- Wheel locks
- Combo hitch 2" ball & 3" pintle ring
- Cellular phone for remote operation
- Handheld controller