



MTP Traffic Sign



Active day and night

Design and Produce in UAE(Manufactory)



Yours Speed Radar Sign with Simple Face

Model Number: SS60113
MTP Brand



MTP Traffic Sign LLC

Tel: +971 6 55 2 99 15 Fax: +971 6 55 2 99 36 Mob: +971 56 78 56 255

P.O.Box: 9401, Emirates Industrial City- Sharjah - UAE

Email: info@mtpTraffic.com

www.mtpTraffic.com



Technical Specification

| | |
|---------------------------------------|--|
| Dimension | Size : 60*113*15.5cm |
| Weight | 15Kg |
| Body Material | Aluminum Black & White Color Electrostatic Powder Coated (MTP Brand) |
| Solar Power | 30 Watts, Life time more than 20 years |
| Battery | Internal 12 volt, 18 Ah, sealed lead acid |
| Display Model | 2 digit with 7 segment LED board With Emoji Face (MTP Brand) |
| Led Quantity | 196 pcs Red + Face 196 pcs Green + Face |
| Led Life | More than 100,000 Hours |
| Light Luminous | 8000mcd |
| Light Intensity | Automatic regulation light intensity in day and night(day intensity 5 times night) |
| Light Increment | Charge controller with microcontroller |
| Radar | CW Doppler device operating in the K-Band (24GHz) (MTP Brand) |
| Speed Detection Rang | 1km/h – 99km/h |
| Detection Distance | ≤100m |
| Response Time | ≤5ms |
| Working Time After Full Charge | 4 days |
| Visible Distance | More than 1000m |

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Mechanical Specification(MTP Brand)



Solar Your Speed Radar Sign Specifications

- **Body Material:** 1.2 mm Aluminum Sheet
- **Frame:** Aluminum Profile with Custom Design
- **Frame Dimensions:** 2*15*0.2cm
- **Color Finish:** Electrostatic Powder Coating, Matte Black
- **Front Sheet Material:** Aluminum with Composite
- **Front Sheet Thickness:** 4 mm
- **Installation Stand:** U-Channel Design, Compliant with UAE Traffic Sign Standards

LED



LED Specifications for Solar Your Speed Radar Signs

- **LED Lifespan:** Rated for 100,000 hours, compliant with legal standards for traffic lights and signals
- **Light Intensity:** 8,000 mcd.

LED Quantity:

- Green Digit Number: 196 pcs LED
- Green Emoji Face: 60 pcs LED
- RED Digit Number: 196 pcs LED
- RED Emoji Face: 55 pcs LED



Battery



Battery Specifications for Solar Your Speed Radar Signs

- **Type:** Sealed Lead Acid (SLA)
- **Configuration:** 1*12V, 18 Ah

Expected Lifespan: 5 years

Solar Panel



SILICON SOLAR PV MODULE

| | |
|--------------------|---------------------------------|
| Model | SA-30P |
| Pm | 30watt |
| Vmp | 18V |
| Imp | 1.5A |
| Voc | 21.24V |
| Isc | 1.98A |
| Dimension | 45*35*3cm |
| Max System Voltage | 1000V |
| Test Condition | AM1.5 1000W/m ² 25°C |

Solar Panel Specifications for Solar Your Speed Radar Signs

- **Power Output:** 30W
- **Voltage:** 18V
- **Current:** 1.5A
- **Efficiency:** 16%

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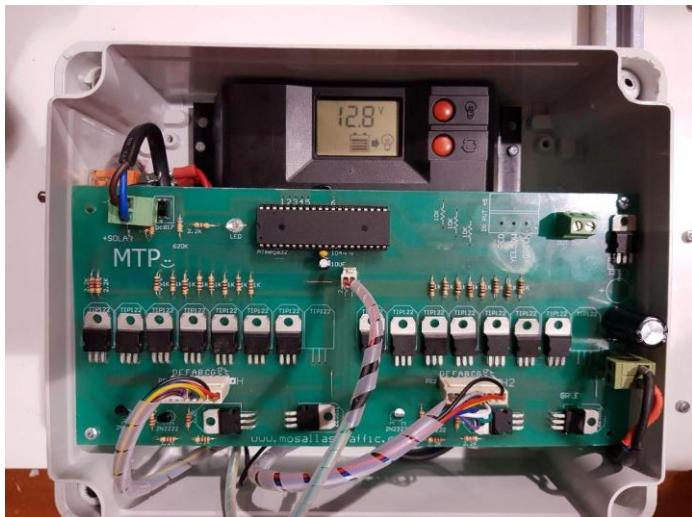
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Intelligent Microcontroller System(MTP Brand)



- Processing data from Radar (and Camera optional),
- Synchronizing Radar with Camera as optional,
- Taking violator vehicle picture on specific area as optional,
- Arranging Time, Date, Location of violation as optional,
- Sending picture and data to Control Room Center through WIFI or simcard internet as optional,
- Measuring voltage of battery, solar panel, charge current and related measuring,
- Light Regulation and optimization of consumption, according to charge current (environmental light) and battery voltage and solar panel,
- Neutralizing of change effects of battery voltage in light illumination of flashing light,
- Preventing of battery over charge and undesired de-charge of battery and neutralizing effect of heat,
- Using modulation of PWM for changing light illumination,
- Probability of performing all changes, according to orders of buyer, (Software changes),
- Working time, without any charge and with full battery is almost 4 days,
- Maximum exited rates (day) into its minimum (night) is 5 to 1 and (it is changeable, on the basis of order),

Controller circuit is considered in a separated package.

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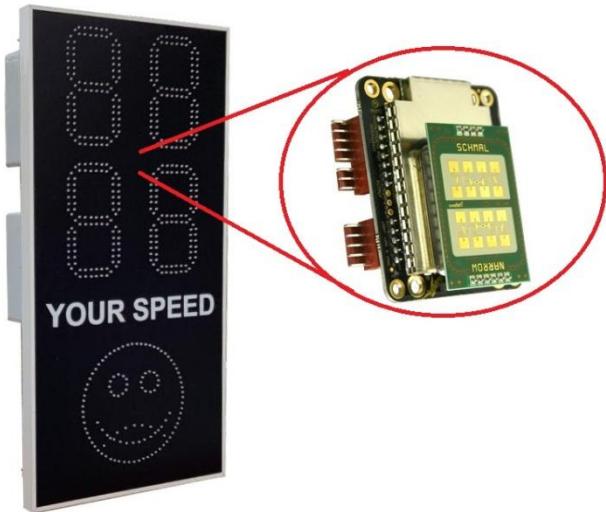
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Radar(MTP Brand)



CW Doppler device operating in the K-Band (24GHz)
(MTP Brand)

Other Spare Parts (Optional)



5 inch hose clamp



3 inch Stainless Steel Clamp

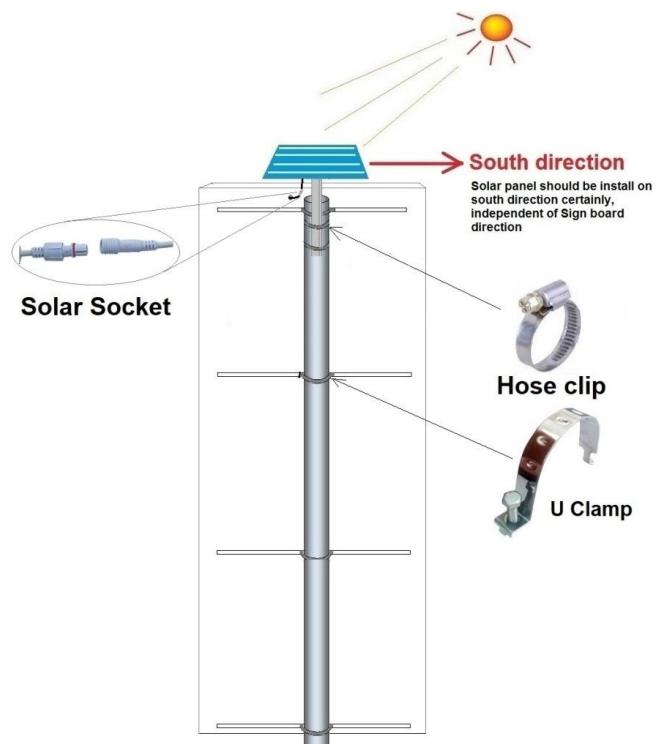


Installation Guide

Five Steps to Installation:

- 1- Fixing Sign Board on the Pole with U clamps,
- 2- Fixing Solar panel on top of pole with hose clips and adjust it on the **South direction**,
- 3- Open Cabinet and connect Positive(Red) wire to Battery positive socket,
- 4- Connect Solar cable waterproof Socket (male) to the sign board Socket(female),
(don't connect solar socket before connecting battery wire),
- 5- Adjust speed limit by pushing the button which is embedded inside of cabinet on the panel, it will increase with 5km steps, green light shows speed limit after each push,

Note: If want keep sign on the store, please disconnect Positive wire from Battery Socket,



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Solar panel will be fixed on the pole with black holder and Nut Bolt which is attached to sign bard.

After installation sign board and Solar Panel, adjust solar panel face direction towards south and make tight its nut.

If south side is prevented by some building or tree's leaves, solar panel face should be adjusted to East or West (open sky area).

Each solar panel has a cable with waterproof socket (male). After installation solar panel on the post, open cabinet of the sign board and connect positive(Red) wire from control panel to battery socket.

Then connect solar panel male socket to female socket which is coming from sign board.

Note: if you connect solar panel cable to the sign board before connecting Battery wire, system can't work properly, so need to remove solar panel socket and battery wire from its socket for few seconds, then first connect battery wire to its socket and after it connect solar panel waterproof socket.



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Usually Your Speed Sign is fixed on the side of road, left or right.

Direction of the radar towards of vehicles and tilt angle of it not more than 10 degrees. If it is fixed above of the road, it needed a vertical angle alignment holder, and then can adjust head of radar towards required place which is needed to detect vehicles speed.

