



MTP POLAND



Active day and night

Design and Produce in POLAND(Manufactory)

Radar Yours Speed Sign



MTP POLAND sp. z o.o

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www.mtpoland.com

Technical Specification

Dimension	Size : 55*70*5cm(without sign) 55*120*5cm(with sign)
Weight	15Kg
Body Material	Aluminum black color Electrostatic powder coated
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
LED quantity	392pcs Super high bright
LED Color	196pcs Red 196pcs Green
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)
Speed Detection Rang	1km/h –99km/h
Detection distance	≤100m
Response Time	≤5ms
Working time after full charge	4 days
Working time in cloudy weather	8 days

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Visible distance	More than 100m
Angle	100 Degree
Reflective sheet	3M
Operating Temperature	-20° C to 75° C

Features

Uses Solar Energy as source of Electricity.

Display effects includes active flash & passive reflection

The light pattern deliver a synchronized or sequential visual effects which will not make drivers feel glare; instead, drivers can be informed his speed.

Inside key switch control, If turn on, all system will function (solar panel, LED light, charging) and opposite function for turn off.

LED



LED's are identified very well and amount of their desired life is 100.000 hours in lawful range for traffic light and traffic signals and its light intensity is 8000mcd. Total numbers of LEDs in one module are equal to 110pcs

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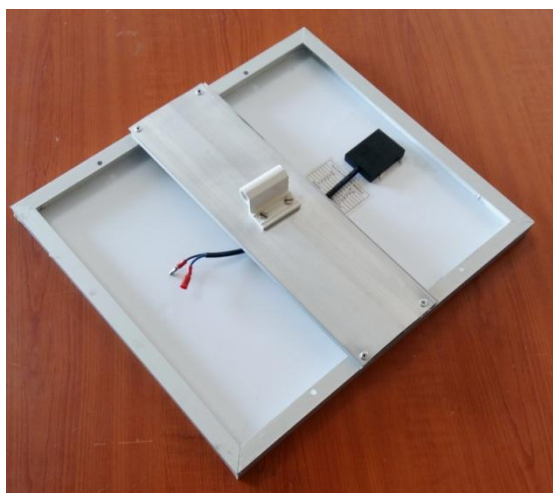
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Battery



Sealed Lead Acid batteries of 1×12v (18Ah), having desired life of 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/m² 25°C

Solar panel is 30W, 17v 1.98A, with the efficiency of %16

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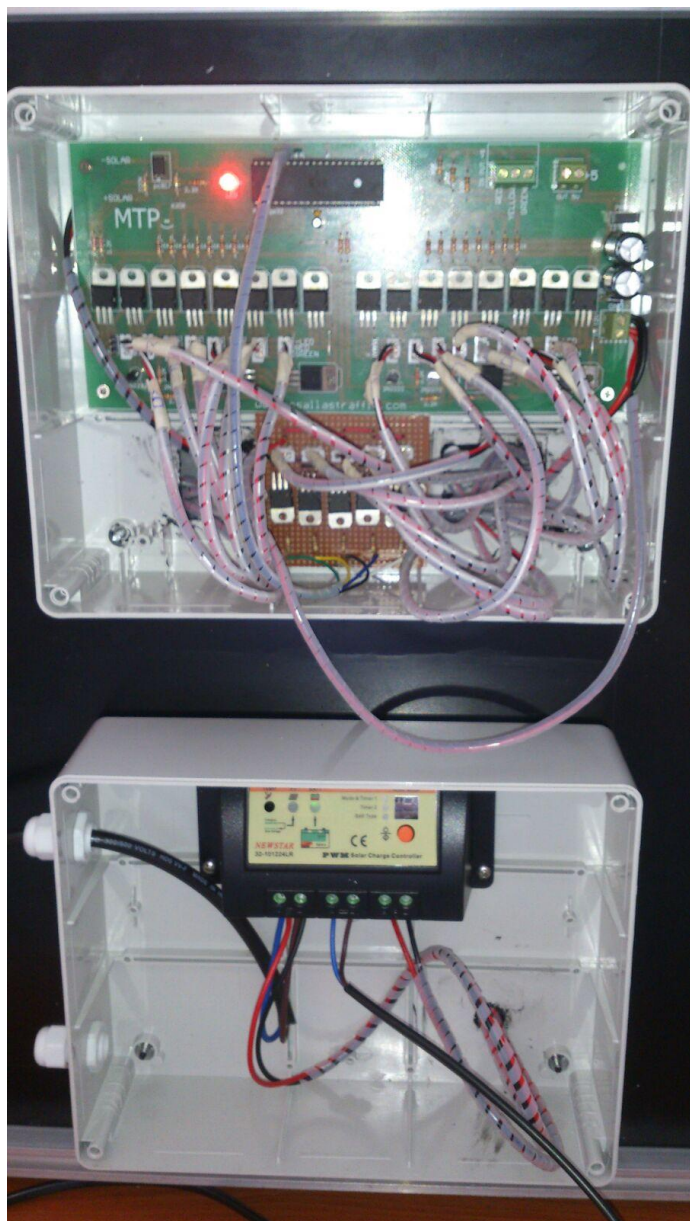
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Intelligent Microcontroller System



- 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.
- Charging time for empty battery is 18 hours in light, in case of performing operation, and 14 hours without any operation.
- 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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Radar



K2 Pico Flex (Kestrel)

This is Radar which we are using now

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

Other Spare Parts



5 inch house clamp



3 inch Stainless Steel Clamp

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Installation Guide

Installation:

Seven Steps to Installation:

- 1- Prepare U clamp and round clamp and tools,
- 2- Put U clamp into U channel stand on the rear of sign,
- 3- Install sign board on the horizontal or vertical pole by U clamp,
- 4- Install Solar Panel on the pole with Round clamp (face of solar panel should be in south side),
- 4- Connect Solar cable Socket to control box Socket,
- 5- Turn ON main switch which is below of battery box,
- 6- Adjust speed limit by push button which is below of control box, it will increase with 5 km steps
- 7- Installation is finished and since now, sign board automatically will get charge at day and will be active at day and night,



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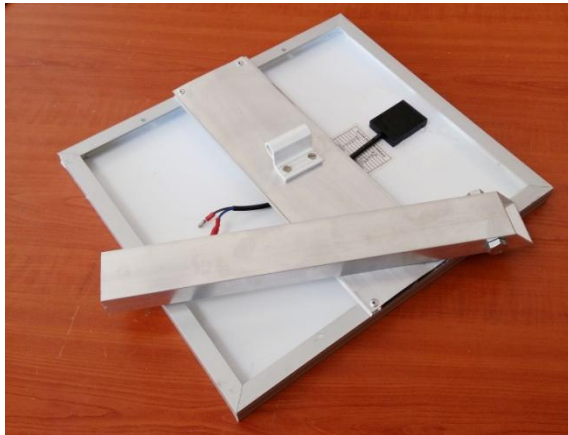
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Solar Panel Connection

Each solar panel has a cable, having 1 blue & black wire. After installation sign board on the pole, mentioned cable is entered into battery box which located rear of sign. Then it connects into its terminal. Note that blue wire shall be connected into blue wire of terminal and black wire into black wire of terminal.



Solar panel is installed on pole by an aluminum tube. After orientation of solar panel into south, they are fastened by two house clips.

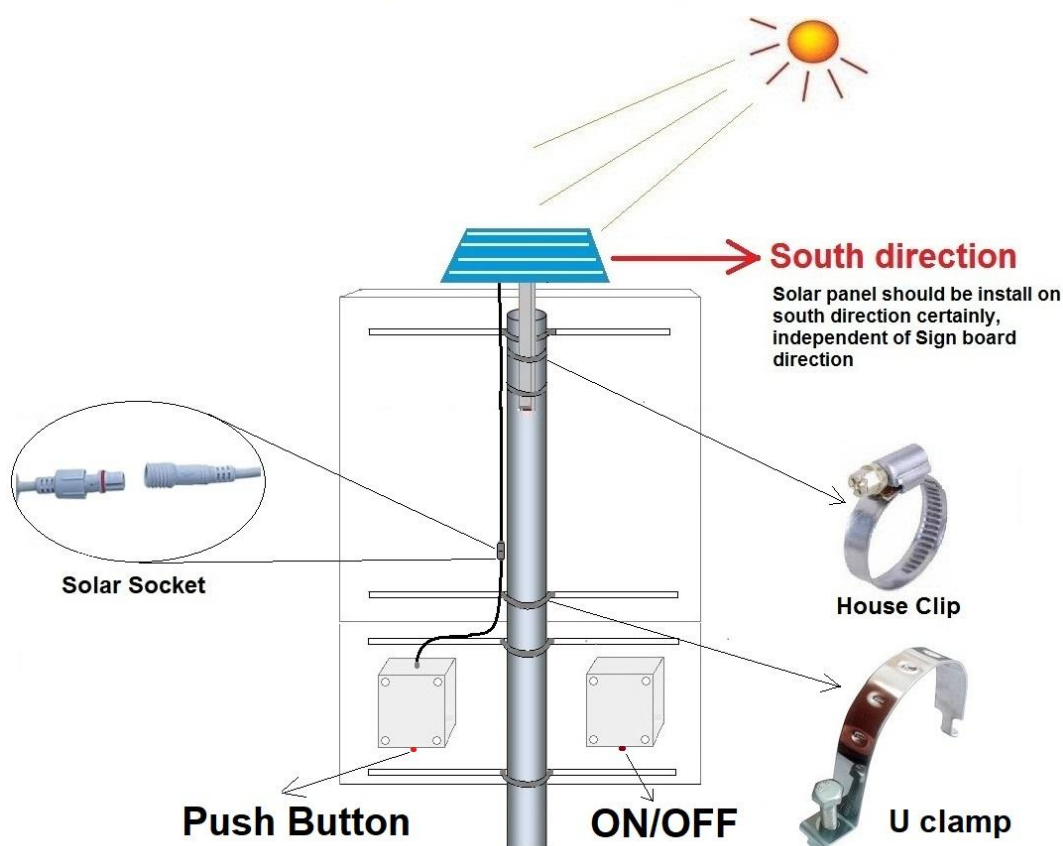
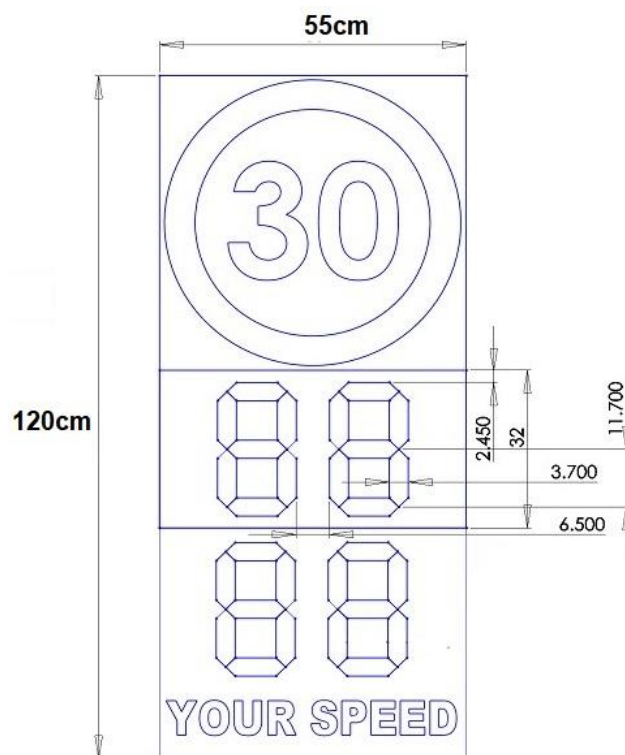
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