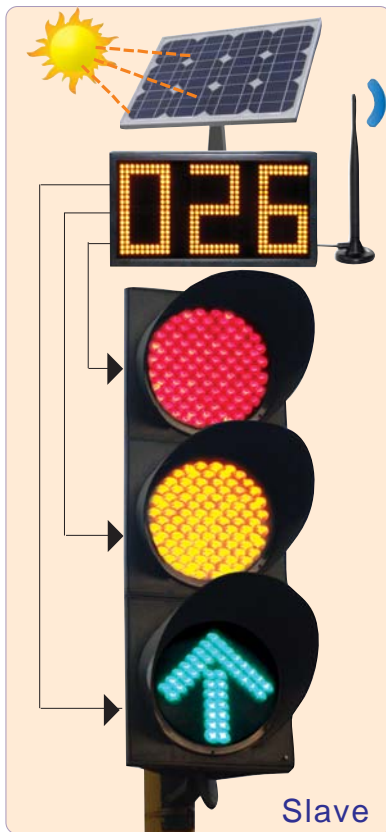
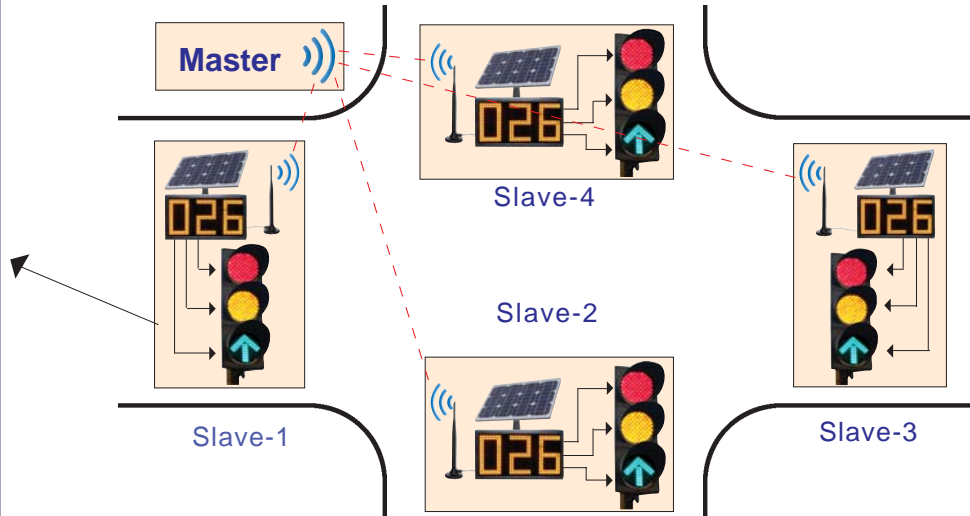


WIRELESS ROAD TRAFFIC SIGNAL SYSTEM



This NEW “Wireless Road Traffic Signal System” is built with latest Technologies to **ELIMINATE** and to **OVERCOME** difficulties faced in the earlier versions like

- PHYSICAL CABLING Between the Poles.
- Signal Failure during Power Supply failure.
- Central Monitoring and controlling of all Junctions
- Unstandard Time and Duration in a Sequence.
- More no. Of sequences to suit the traffic variations in a day at a single junction.
- Road Trenching.
- Synchronization between the junctions.
- Difficult to relocate in case of rearrangement.
- HIGH POWER Consumption.



KEY ASSETS IN THE SYSTEM:

- ❖ Master Control Unit.
- ❖ Slave Unit with Count Down Timers
- ❖ RED, YELLOW & GREEN Lamps / Three in One Lamp
- ❖ Solar Panels & Battery Backup at Master and Slaves for Green Power source.

UNIQUE FEATURES:

1. ELIMINATES Physical Cabling between all the poles and Road Trenching in a junction

- ❖ Uses Zigbee Wireless Communication between all the poles to eliminate communication wiring
- ❖ Solar Power Supply at each pole eliminates power supply wiring from one source (State Electricity Board).
- ❖ No other cables / wires required to be laid across the junction. Hence eliminates the Road Trenching.

2. Easy to relocate in case of rearrangement.

- ❖ Each pole uses Solar Power and Wireless Communication for Lamp Controlling. It is easy to relocate or rearrange them in case of road widening etc

3. WORKS even during the POWER SUPPLY FAILURES.

- ❖ Uses BATTERY BACKUP for req. No. of hours, makes the system to work independent of Power Supply Failures.

4. Maintains Standard Time and Duration in a Sequence.

- ❖ Time synchronization with GPS clock to maintain INTERNATIONAL & STANDARD Time & Time Duration in a Sequence.

5. Reduced POWER CONSUMPTION

- ❖ Uses High Bright, focused and low power consumption LEDs in a lamp and COUNT DOWN timer for more reliability, longer view and longer life.

6. Synchronization between the junctions.

- ❖ Possibility to maintain the Synchronized Sequences in a series of Junctions for a given speed between the junctions.
- ❖ This helps to maintain the synchronization between the junctions for Free Flow of Traffic.

7. Hour wise and day wise sequences in a week.

- ❖ Provision to program HOURWISE in a day and DAYWISE in a week SEQUENCES to suit the TRAFFIC VARIATIONS in a JUNCTION.
- ❖ Provision to program 20 Holiday Sequences.

8. Central Monitoring and controlling (optional)

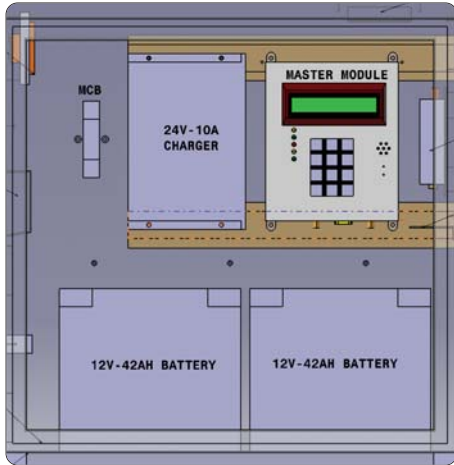
- ❖ Uses GPRS / GSM connectivity to upload the signal status ON-LINE to the central place.
- ❖ Each junction reports all the failures to the central place. i.e.
 - ◆ Any Lamp permanent ON or OFF.
 - ◆ Power Supply Failures
 - ◆ Communication Failures etc
- ❖ Mimic showing the functioning of Junctions OFFLINE to understand the synchronization and sequence operations.

9. Three in one Lamp

- ❖ “RED, YELLOW & GREEN” arranged in one retrofit.
- ❖ Cost effective.
- ❖ Saves space and more safer from getting damaged.

WIRELESS ROAD TRAFFIC SIGNAL SYSTEM

Housing Rack with Master, Power Supply and other modules.



SPECIFICATIONS OF LAMPS & TIMER

SPECIFICATIONS	RED LAMP	AMBER LAMP	GREEN ARROW LAMP	COUNT DOWN DISPLAY
Lens Type	Water clear	Water clear	Cyan green with water clear	3 Digit Amber SMD led
Intensity	>300cd	>300cd	>300cd	>300cd
No. Of LEDs	97	97	42	108 / Digit
Interface	TLC /Countdown Unit	TLC /Countdown Unit	TLC /Countdown Unit	Master unit
Retrofit make	Aluminum	Aluminum	Aluminum	Aluminum
Power supply	AC / DC supply	AC / DC supply	AC / DC supply	DC supply
Working Voltage range	18-36V DC supply	18-36V DC supply	18-36V DC supply	18-36V DC supply
Power consumption	<5W	<5W	<5W	<8W
Ambient operating Temp	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C
Standards	ITE / EN	ITE / EN	ITE / EN	ITE / EN
Protection	IP65	IP65	IP65	IP65
Lamp diameter	12"	12"	12"	9" Digit

Specifications are subjected to changes from time to time

