

ENVOYS ELECTRONICS CONTROLLER MODEL (EMTC -04)

HARDWARE

1. CPU : 89C52 (Atmel / Philips)
2. Memory :: EEPROM .
3. Clock : Built in RTC with 10 years battery backup
4. Protection : Auto Shut down on fluctuation beyond limits and Auto Start up on restoration .
5. Output switching : Through solid state devices with zero cross over & optically isolated .
6. Input / Output isolation : Output switching isolated from control circuit by optical isolation.
7. Police Control Panel : Output OFF, Auto / Manual Step & Flash , Lamp Test
8. Programming Facility :
 - i. PC Compatible by RS 232 communication.
 - ii. LCD display.

PROGRAM SCHEDULE

Sr. No.	Parameter	Min.	Max
a.	Minimum Green	PRG .	199 Sec
b.	Minimum Green Per Group	PRG	299 Sec.
c.	Amber Time	01 Sec.	199 Sec.
d.	Amber Time Per Group	01 Sec.	299 Sec.
e.	Pedestrian Flash Time	01 Sec.	20 Sec.
f.	Start Up All Red Time	01 sec	C.T.
g.	Start Up Flash Time	01 Sec.	C.T..
h.	Cycle Time	01 Sec	299 Sec.
i.	Cycle Time Per Plan	01 Sec.	299 Sec.
j.	Cycle Monitoring Time	01 Sec.	299 Sec.

FEATURES

1. Max Number of Signal o/p : 32 Nos.
2. Number of Stages : 1 - 32 Stages
3. Max Number of Signal Plans : more than 24 plan
4. Max Number of Day plans : 8 holiday plan + weekly plan 8 per day
+ 24 routine plans
5. Max Number of plan transitions : 24
per day.
6. Max Number of Holidays per annum. : 10

SIGNAL SEQUENCES

a. Vehicular Groups

Red - Green - amber
Blink / on / off mode.

b. Pedestrian Group

Red - Green - blink / on / off

MODES OF OPERATION

1. CABLESS LINKING MODE ----- optional
2. FIXED TIME
3. MANUAL OPERATION
4. FLASH MODE

SAFETY FEATURES

a. Conflict Monitoring : Interlocking by hardware for conflicting green signal.

b. Self Diagnostic Features

- Through Watch Dog Timer
- System Failure Detection
- Software check sum in RAM Monitor
- Hardware / Software Watchdog
- Data Check At the time of data entry.

c. **FLASH** Facility through hardware and Software.

d. Electrical

Lamp Switching : Solid State optically isolated.

Max. Load Per Solid State Output : 16 A

Max. Controller Load : 4 KVA

Power Supply : 170 to 250 V AC & 50 ± 1 Hz

Power Consumption : 50 Watts for Control Circuit / rest as per O/P actual load

e. Environment

Supply Interruption : Continuous Operation with Upto 100 ms Mains Break

Supply Failure : Restarts without operator intervention. No Loss of Data upto 9 years.

Temperature : 0 °C To 70°C

Humidity : 95% Humidity at 40°C Non Condensing

Construction : Weather Proof. ,Dust and Splash Proof
Steel Cabinet coated with anti corrosive & Painted
with cable entry and separate access to police panel
controls