UNIVERSAL TRAFFIC CONTROLLER
UCON

CMS
SIMPLIFYING LIFE

UNIVERSAL TRAFFIC CONTROLLER

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FEATURES

* State-of-the-art Advanced Traffic Controller on Embedded Linux Operating System

* Modular construction with compact design

* Upgradable design. Supports Internet of tings (IOT), Cloud computing, Data analytics. Can be interfaced with Vehicle Detectors like loop/Video/Radar (Upto 16)

* Works on Fixed Time mode, Vehicle Actuated Mode ,Adaptive Traffic Control Mode , Cable less Synchronization with time offsets

* Involves highly intelligent Operation and error correction Algorithm

* 32-bit ARM9 based CPU or latest at 1GHz . 1GB RAM.512K Flash for Plan storage with Supports external flash USB storage upto 32 GB .

* Optimized drive and sensing for LED based Aspects. Supports Dimming

* Application specific (ASIC) Energy chip for precise measurement of Supply Voltage, Frequency & Lamp Power.

* Detection & Fallback action for Input/Output Overload, Lamp failure, Phase Reversal & Inter-Intra Conflict

* Ready with multiple communication options such as CAN bus , RS485, RS232, I2C, USB , UTP & ISP Port,TCP/IP,OFC,3G/4G. Interface available for Audio Output devices

* Supports Crytsal RTC(With Internal Battery)/GPS RTC/ Server RTC and Manual entry

* Flexible Group/Lamp Configuration for assignment as Vehicular or Pedestrian.

* Configuration via Web application/Local Hand Held Terminal with Display/Laptop

* Real Time Detection Status through CAN bus / Rs485/TCP-IP supports upto 16 detectors

* Central Control Room based monitoring/upload

* Customized panel for Police personnel for Manual and Emergency functions such as Lamps Off, All Red, Flash, Hurry Call etc along with LED indications.

* Meets multiple Standards E.g EN 50556/ EN 12675/IEC 60068 /EN 55024:2010/ BS 60950/BS EN 61000-3-3.

*Any specific product certification on demand shall be provided prior to supply.

* Operating Temperature - 0°C to +60°C. 95% Relative Humidity

* Dimensions – 1200mm(H) x 600mm(W) x 300mm (D)

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No. of signal group	Up to 32 signal groups with each programmable as either vehicular or pedestrian group.
Group sequence	Vehicular: - Green – Amber – Red
	Pedestrian:- Green – Red Flash – Red
	Green – Green Flash – Red
No. of Phases/Stages	Up to 32
No of Signal Plans	24 Fixed Time/Cable Less Plans/As per ATCS
	VA Signal Plans
	As Flash Plan
	4 Auxiliary Signal Plans
No. of weekdays Plans	7 Weekday
	4 Auxiliary weekday

Special Day/Holiday Plan 20

No. of signal plan switching in each weekday plan :- 20

Time Resolution	0.1Seconds
Pedestrian wait outputs	16
Pedestrian Inputs	16

Modes & Operations

Manual-Step or Manual- Stage	UTC – Links Select Fixed Time
Flash Vehicle actuated	Lamps – Off Cable- less Link

All Red Maintenance Mode   Flashing Red/Green Pedestrian Mode

Slave Mode under Central Control

Hurry Call

In each phase, following features can be programmed: Late Start Green / Early cut off Green / Late

Supports up to 64 individual output for signal lamp switching, configurable from 16 to 32 lamps

Vehicle Actuated Related features:
Arterial Demands – Up to 8 with provision of programmable time for each arterial demand
Banned Transition between Phases / Conditional All Red /Configurable Phase Look
Ahead Feature / Conditional Movements (logic based)/Filter Green

Programmable Timings

Cycle Time	0 – 255 Sec	Ped – Walk Time	1 – 99 Sec
Startup Flash	1 – 10 Sec	Ped – Flash Time	1 – 30 Sec
Startup Amber/Red:	1 – 10 Sec	Maximum Green	5 – 255Sec
Minimum Amber Time:	1 – 30 Sec	Gap, headway & Waste time	1– 10 Sec
Minimum Green Time	1 – 10 Sec	Inter-Green : 3- 10 Sec	
Minimum All Red Time:	1 – 10 Sec		