

Traffic Signal Controller Product Specification

Product Description	Traffic Signal Controller
Model	UCON
Operating Voltage	230vAC
Output Voltage for Traffic Lamps	230vAC/12vDC/24vDC
Cabinet	Mild-steel powder coated cabinet designed with grouting facility for fixing onto the foundation.
Operating Temperature	0°C to +60°C
Max. load	6A per Lamp Output
Protection	Fuse Rating – 3A per Lamp Output
Lamp Drive Device	Solid State Triac/MosFET
Maintenance Panel	LCD Display integrated with Keypad, Laptop, Server
Police Panel	Manual and Emergency functions such as Lamps Off, All Red, Flash, Hurry Call etc along with LED indications
Interfaces	Loops, Video Detector, Radar, Pedestrian Access Devices. Multiple accessories
Communication	RS485, RS232, I2C, USB/Micro USB, UTP & ISP Port, TCP/IP, OFC
Monitoring	Remote monitoring of Conflict, Clock, Detector, Lamps Upload of configuration
Real Time Clock	Crystal RTC 0.1S Resolution (With Internal Battery)/GPS RTC/ Server RTC
Output Line Configuration	Flexible Configuration for assignment as Vehicular or Pedestrian
Control Systems	Manual-Step or Manual- Stage Vehicle actuated All Red Maintenance Mode Red/Amber Flash Slave Mode under Central ATCS Control Hurry Call Fixed Time Cable-less Lamp Dimming
Records	Conflicts, Health Status, Clock, Detector
Traffic Control	16 signal groups (expandable upto 64) with each programmable as either vehicular or pedestrian group. Plans Up to 14 Weekday Up to 14 Holiday /Special day plans 16 Fixed Time/Cable Less Plans 16 VA Signal Plans (Expandable Up to 60) Switching in each weekday plan :- 32 Startup Amber /Red Flash Configurable Green/Inter-Green

	Programmable Timings Startup Red: Startup Flash Cycle Time Minimum Amber Time Maximum Green Ped – Walk Time Ped – Flash Time Gap, headway & Waste time Late Start Green / Early cut off Green / Late cut off green Offsets
Operating Modes	Fixed Time mode, Vehicle Actuated Mode Adaptive Traffic Control Mode
Operating System	Linux
Processor	32-bit Arm Microprocessor
Safety	Inbuilt safety mechanism for monitoring conflicts and plans. To implement fallback as configured Flash, lamps off or reset Traffic controller
Memory	256 MB RAM, 512 MB internal flash storage for local plans & configuration