

VA/ATCS Traffic Controller - WiCAN

Parameter	Specifications
Make	ENVOYS
Model No.	EMTC-10-WC
General Description	VA/ATCS Traffic Controller - WiCAN is a CAN based Road Traffic Signal Controller that controls LED based Signal Lamps switching over wired medium and is compatible with CDAC's CoSiCoSt-W and TraMM based Area Traffic Control System (ATCS) Command & Control Application Softwares.
Salient Features	Integrated Master-Slave architecture on CAN Bus, Signal switching and feedback on wired medium, GPS interface for corridor synchronization
Modes of Operation	Pre-Timed/Fixed, Vehicle Actuated, Semi-Actuated & ATCS. Lamps OFF, Auto/Manual-Step, Forced Flash, Hurry Call
OPERATING PARAMETERS	
Signal Plans	32 Phases, 32 Stages, 24 Cycle Plan, 20 Day Plan, 4 Week Plan 20 Special Day Plan, 4 Hurry Calls
Extended Modes of Operation	Cable – less Synchronization Pre-timed (Fixed), Vehicle Actuated, Semi Actuated Remote Administration Hurry Call, Forced Flash, Junction Off, (RTC) update, Signal Time Update, Plan Download/Upload
Extended Features (Programmable)	All Red, Start Amber, Red Extension, Stage Skipping
Signal Sequence	Vehicular Group R-G-A-R - (Green can blink, steady or steady and Flash mode) Pedestrian Group: Red-Green – blink on/off
Safety Features	Self-diagnosis on power up and runtime, Green – Green Conflict Monitoring Lamp failure / Short circuit Monitoring, Fallback on AMBER flash in case of conflict or error condition.
HARDWARE	
CPU & Memory	32-bit Microcontroller, FLASH Memory - 512KB and 128KB RAM.
Real Time Clock (RTC)	10 years battery backup. RTC can be synchronized with either Internal or GPS Receiver or remote ATCS Server. Time resolution 0.1 sec
LCD Display & Hand-Held Terminal-Keyboard	20 x 4 LCD display interface with backlit option, 16 Keys Keyboard interface
Communication Ports	RJ 45, RS232, USB and CAN
Number of Outputs	Maximum Capability 64 Output, Configurable from 16 to 48, Lamp output option 230VAC or 12/24VDC
Police Panel Control	Lamps OFF, Auto/ Manual-Step, Forced Flash and Hurry Call (4)
Number of Detectors & Interface	Maximum 28, Typical 20 Inputs for Inductive Loop or Microwave Radar or Camera Based Vehicle Detection Sensor
Programming Facility	1. Through PC interface via RJ 45 port 2. Through LCD-Keypad Console
Power Supply	230V AC \pm 10%, 50 Hz or 24V DC
ENVIRONMENTAL & DIMENSIONS	
Temperature & Humidity	Temp. 0 ^o C to 55 ^o C, Humidity 95% RH Non – condensing at 40 ^o C
Enclosure Type	Foundation Mountable Weather Proof, Vandal Resistant, dust and splash proof mild steel cabinet passivated and Powder Coated with separate access to police panel controls.
Enclosure Dimension	550mm (W) x 850mm (H) x 270mm (D) Approx.
Certification	IEC – 60068 (ERTL)