

U.S. Traffic Corporation

Manufacturers & System Engineers

Model 820A OSAM

Traffic Controller



Features & Benefits

- Exceeds NEMA TS-1 1983 standards
- 5 programmable preemption sequences
- Graphic Intersection Display for easy monitoring
- Easy-to-follow data entry and display
- 2-8 vehicle and 2-8 pedestrian phases, 1-8 overlaps
- Time based control with 200 events
- Phase sequence programmable by plan
- 48 independent coordination plans
- 16 free plans
- 8 detector plans
- 16 intersection detectors
- Internal detector extension, delay, switching, queuing, and rerouting by plan
- Five-section head control
- Soft flash capability
- Dynamic extension of maximum green time
- Max II selective by time-of-day by phase
- Hardwire interconnect master or slave

The 820A Series traffic controllers from IDC Multisonics are the most advanced, versatile, and effective traffic controllers in the industry. To enhance flexibility, the 820A controllers will support various firmware configurations which fulfill the demand for expanded features and options.

The 820A OSAM controllers feature an alphanumeric user-friendly display for easy data entry, as well as a Graphic Intersection Display of NEMA-required items viewable during editing of the 820A's database. Programming has never been easier with the menu-driven selections in traffic engineering terms.

Features of the 820A OSAM include hardware interconnect capability, both as a secondary and as a time-of-day/day-of-week master.



Specifications

Time-based coordination features two-hundred events, sixteen day plans, ten week plans, thirty exception days, sixteen holidays, and a true yearly schedule. Forty-eight independent coordination plans and sixteen traffic responsive free plans guarantee flexible control with variable phasing. A free or coordinated plan may use any of eight detector plans. Dynamic extension of maximum green time is based on vehicle demand. Max II is selective by time-of-day for each phase. The status of all inputs may be displayed for cabinet wiring verification. On-line diagnostics continuously check for errors and store the last 64 errors with the date and time.

The 820A OSAM also provides remote operations through an RS-232 port that may be connected to a Hayes compatible modem. An 820A OSAM controller interfaces with the IDC Multisonics OSAM 32 On-Street Arterial Master. One PC Central supervises up to 16 Masters, each of which controls up to 32 820A OSAM Locals for a maximum system size of 512 intersections. The master and Central can edit any Local database and display real-time status information. Data gathered from the Locals is processed by the Master which will generate traffic responsive plan changes. By using an optional serial printer, the operator may print out all or part of the controller database for system maintenance and record keeping.

The 820A OSAM controller interfaces with an IBM or compatible PC, providing upload and/or download of the 820A's database to a DOS file. Modem dial-up capability allows remote access to any intersection from a PC, review of controller operation, and viewing or editing of any local entry. Errors detected by the 820A's diagnostics may be automatically reported to a remote serial terminal/printer.

The 820A OSAM Controller also interfaces with IDC's Solid State Devices LCD conflict monitor. This provides capability for monitoring and editing the conflict monitor from a REMOP or OSAM central system.

▼ 820A OSAM Firmware

With Modem for Communications 006922-4BLT
With Dual RS-232 Ports 006922-8BLT

▼ Specifications 820A OSAM

Control:	2 to 8 vehicle phases 2 to 8 pedestrian phases 1 to 8 overlaps
Modules:	Master processing unit Input/output with NEMA connections Display with keyboard Power Supply
Programming:	Menu-driven keyboard entry
Inputs/outputs:	NEMA standard
Cabinet Dimensions:	17.7" W x 10.2" H x 6.6" D (449 x 259 x 168 mm)
Power:	95-135 VAC @ 60 Hz 1/2 amp
Weight:	17.5 lb (7.9 kg)
PCB's:	NEMA FR-4 glass epoxy 1/16" minimum thickness
Connectors:	Four (4) MS connectors
Circuitry:	Low power CMOS Nonvolatile EEPROM data
Ambient Temperature:	-30°F to +165°F (-34°C to 74°C)
Indicators:	LCD intersection display 32 character alphanumeric

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Specifications are subject to change without notice to reflect improvements and upgrades.