Intersection

PEEK

Multisonics™ 820A OSAM

NEMA Traffic Controller

Traffic Control

The 820A Series traffic controllers from Peek Traffic are among the most trusted and effective traffic controllers in the industry.

To enhance flexibility, the 820A controllers 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. 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 Peek Traffic Multisonics OSAM 32 On-Street Arterial Master.

Features

- 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

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Central Networking

Multisonics 820A controllers can be networked into a regional traffic system using either the Multisonics PC Central software package, or the new Peek IQ Central® software system.

PC Central Operation

One PC Central instance can supervise 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 a Windows™-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 Peek Traffic's LCD conflict monitor. This provides capability for monitoring and editing the conflict monitor from a REMOP or OSAM central system.

IQ Central Operation

The 820A functions in the IQ Central environment in much the same way as described above, except that the maximum number of masters and local controllers that can be connected to the system is 32,768 (assuming your network bandwidth is configured to handle this volume of traffic.) IQ Central can be used to retrieve, view, modify and transmit the controller database to the 820A OSAM, and it can also be used to print out reports on the programming. IQ Central can be used to monitor the status of the controller, either directly or via an OSAM32 master, and it can also be used to retrieve status logs from the controllers.

The one difference in the IQ Central implementation is that to enable the 820A to communicate with the standard NTCIP spoken by IQ Central, the controller or master will need to connect to an IQ Connect network translator unit, available from Peek Traffic.

Specifications

Property	Description
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
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

820A OSAM Firmware part numbers

For Modem Communications	006922-4BLT
For Dual RS-232 Ports	006922-8BLT
Networking	Compatible with IQ Central (via an external IQ Connect translator unit)

Two Year Limited Warranty

Peek Traffic warrants this product against manufacturing defects in materials and workmanship for two years from date of shipment from Peek Traffic. Specific contracts and regional laws may vary or alter these terms.

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