



Smart intersections equipped with NWSVoyage™ recognize and manage traffic platoons, dynamically reverse phases, alter phase length and proactively select plans. Data values are quickly accessed and changed remotely using a menu-driven interface.

Whether you operate a few traffic signals running in “free” or a large metropolitan system with complex coordination demands, NWSVoyage™ is all you need.

Our controller communication ports allow you to create central systems, closed-loop systems, or simple bit relay to communicate I/O from one intersection to the next.

The inherent flexibility and power of nwsVoyage™ allows these complex interactions to be a reality. We choreograph the urban traffic elements to blend smoothly without unduly delaying any one “customer.” nwsVoyage™ orchestrates the dance that occurs daily between autos, pedestrians, bikes, emergency vehicles, buses, streetcars and rail in transit-friendly Portland, Ore. — the nation’s 30th largest city. With respect to all, few competitors understand how we do it.

nwsVoyage™ operates on a variety of 2070 L and NEMA controller brands including NorthwestSignal’s M1 NEMA Controller (a free derivative of nwsVoyage™ is preloaded), as well as Econolite®, McCain®, Siemens®, Naztec®, Intelight®, Peek® and others.

Let NorthwestSignal provide your traffic engineers the tools to precisely control the needs of your municipality or agency.

Northwest Signal

Managing mobility™

*Auto, Public Transit, LRT
and Streetcar Integration*

NorthwestSignal manufactures advanced traffic control products ranging from controllers to software to cabinets and poles. We integrate the flow of transit, streetcars, LRT, bikes and pedestrians. Our mission: guarantee safety and preserve our environment by efficiently **Managing mobility™**

OUR GUARANTEE

Around the world, the largest percentage of signalized intersections are organized along linear (i.e. arterial) routes. **In these applications, nwsVoyage™ has no peer.** We optimize bi-directional arterial flow using tested, proven tools that interact seamlessly so that you don't end up "fighting" the software! Compare us with the other guys...

- Simple programming; up to 32 coord plans
- Easy implementation of actuated coordination
- Crisp lead/lag phasing
- FAST offset seeking
- Conditional service (free or coord)
- Repeated phase service for non-coord phases
- Advanced flashing yellow left turn arrow
- Omission of the protected/permitted left turn by TOD or coord plan
- Transit/truck priority
- Intelligent recovery from preemption
- Traffic responsive operation
- Adaptive control algorithms
- Internal Logic

We guarantee these features are simple and easy to deploy. Satisfy yourself — look closely at nwsVoyage™ — we're more than happy to assist in your discovery of what we have to offer.

KEY POINTS

- Operates in all 2070 controllers (and NEMA units with 2070 architecture)
- Control more than 185 clock circuits
- Built-in adaptive algorithm called "Platoon Progression" and "Dynamic Phase Length"
- TS1 and TS2 compatible
- Master Functionality
- Flashing Yellow left turn arrow with anti-trap logic
- Internal Logic Functions allowed
- Preemptor features to smooth recovery to normal operations. For example, Exit to Coord Plan, or Priority Return
- Runtime Status displays with more than 30 screens

TECHNICAL SPECS

CONTROLS

- Light Rail (LRT) Control
- Truck Priority
- 8 Priority inputs
- 8 phases with twelve true overlaps
- 8 alternate Service and Max plans
- Flashing yellow left turn arrow logic; anti-trap logic
- Conditional service/re-service and coordinated late left turn
- 8 true pedestrian overlaps
- Script language enhances logic controls
- Basic AND, OR and NOT gates are used to change logic states of inputs, outputs, events and circuits

TIME CLOCK

- 15 day-programs; 200 programmable time clock events
- 10 week-programs
- 35 programmable exception days
- Control over 185 clock circuits functions

SYSTEM

- Ethernet Compliant
- Master functionality built-in
- Two modes of master operation: Broadcast and Polling
- Traffic Responsive Operations:
 - Proactive Plan Selection
 - Split Variant Operation

INPUTS AND OUTPUTS

- Supports C1 & C11 IO
- TS1, TS2 and ITS compatible
- Custom I/O reassignment

PREEMPTOR

- 8 preemptor sequences / 8 priorities
- Entry into preempt can be conditioned with min. times, delays, and omits
- Exit from preempt provides smooth recovery to normal operation via features like "Exit to Coord Plan" or "Priority Return"
- Coordination during preemption
- Override and fail timers

USER INTERFACE

- Context sensitive help
- Programmable hot keys enable quick return to commonly-used screens
- Call pedestrian, vehicle preemption and transit inputs from keypad

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