



## Traffic Adaptive Controller

The Series 900 ATC Traffic Signal Controller is designed using state of the art electronics to ensure reliability, a long life, and superb performance in all signal control applications.

Design of the Series 900 ATC Controller is based on the ATC and NEMA TS2 standards and includes advanced functionality for complex phasing, detector processing, coordination, preemption, communications, adaptive timing, and systems operation as a master or a secondary controller.

The advanced LCD display and menu-driven software provide a user-friendly approach to programming and access. Built-in diagnostics permit rapid evaluation of operational status. The on-board Flash File System allows software upgrades without PROM replacements. The front panel mounted USB port facilitates the upgrade process and file access with ease and the Ethernet-enabled controller allows communication across a TCP/IP network.

# Product Features & Specifications

FEATURES	
Flash File System	The Series 900 Controller is easily configured to various firmware versions through the utilization of Flash File System, which eliminates the need for obsolete EPROM technology. A complete traffic controller firmware update requires only seconds. No hardware changes or EPROM replacements are required.
Master/Secondary	Operation in a Closed Loop System requires only one Series 900 Controller to be located at the master cabinet. Both the master and secondary functions are simultaneously provided by a single controller.
Display	A backlit, 8-line by 40-character LCD display provides full-menu screens for eased data entry. Optimum contrast and brightness are automatically maintained by temperature-compensating circuitry. The menu-driven format and context sensitive help screens eliminate the need for special codes or front panel identification characters.
Easily Serviced	The modular design of the Series 900 Controller allows quick sub-assembly level problem isolation. Printed circuit board components are clearly labeled with silk-screen. No specific tools or extender cards are needed for troubleshooting.
Real-Time Clock	The real-time clock maintains accurate timing by utilizing a "super capacitor" and crystal-controlled circuitry, which allows for 0.005% accuracy.
NTCIP Objects	The Trafficware 980 Controller incorporates the NTCIP Standard Objects and many additional objects that allow for enhancements to standard ATC operating features as well as entirely new ones. Sixteen phases, sixteen overlaps, ten compatible phases per phase, alternative programming by time-of-day, and many other features provide extreme flexibility to handle the most challenging traffic control situations.
Keyboard	A custom 23-key keypad containing four (4) red function keys, ten (10) white numeric keys, seven (7) cursor and menu navigation keys, and two (2) LCD contrast adjustment keys.
Diagnostics	Built-in diagnostics provide for improved maintenance and easier repairs. It allows operator tests on all input and output signals, RAM devices, memory, LCD, keypads, etc.
Communications	Four (4) EIA-232 ports and an optional FSK modem are available. These ports are keyboard programmable with selectable baud rates up to 115K with full and half duplex options. Various communication configurations allow the user multiple interfaces to other cabinet devices: conflict monitor, preemption equipment, detectors, GPS, modems, notebooks, printers, etc. An RS-485 SDLC Port is available for applications using the NEMA TS2 Port 1 interface and a USB 2.0 Full Speed interface is available for software updates and file transfer.

HARDWARE SPECIFICATIONS	
Voltage	89 to 135 VAC
Frequency	60 +/- 3 Hz
Temperature	-30° F to 165° F
Humidity	95% max, non-condensing
Dimensions	10.50"H x 14.75"W x 8.38"D