



## Traffic Responsive Master/Secondary

The Series 900 NEMA Traffic Signal Controller is designed using state of the art electronics for reliability, long life, and superb performance in all signal control applications

The Series 900 Controller meets and exceeds NEMA TS1 specifications 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 provides a user-friendly approach to programming and access, and built-in diagnostics permit rapid evaluation of operational status. The use of Flash Memory allows software upgrades without PROM replacement.

**820 Park Two Drive Sugar Land, TX 77478 (281) 240-7233**

**www.naztec.com naztec@naztec.com Additional Offices in Florida and Virginia**

## FEATURES

### FLASH PROMS

The 900 Series Controller is easily configured to various firmware versions by the utilization of FLASH PROMS which eliminate the need for obsolete EPROM technology. A complete firmware update requires only ten minutes, and does not require hardware changes or EPROM replacements.

### MASTER/SECONDARY

Operation in a Closed Loop System requires only one 900 Series Controller to be located at the master cabinet. Both the master and secondary functions are simultaneously provided by a single controller.

### DISPLAY

A back-lighted 4-line by 40-character supertwist LCD display provides full menu screens for ease of data entry. The display maintains an optimum contrast and brightness over the entire NEMA specified temperature range, using special temperature-compensating circuitry. The menu-driven format and context sensitive help screens eliminate the use of special codes and the need for front panel identification characters.

### EASILY SERVICED

The 900 Series Controller consists of only two printed circuit boards and an open frame power supply. The CPU/display board and the I/O board utilize machine tooled sockets for all integrated circuits for easy maintenance. An identification silkscreen on each circuit board clearly labels all components. No special tools or extender cards are needed for troubleshooting.

### REAL-TIME CLOCK

The real-time clock maintains accurate timing by utilizing a "super capacitor" which allows accuracy of 0.005% during a 24-hour time period. Retention time during power failures for the real time clock is extendible to 30 consecutive days.

### BARRIERS

Unique to the Naztec traffic controller product line is the flexibility of user programmable barriers. Four (4) separate batteries allow programming for applications from one (1) to eight (8) phases in each barrier.

### KEYBOARD

A 20-position keyboard containing 4 red function keys, 6 gray cursor movement keys, and 10 white digit keys with built in audio/tactile feedback provides user-friendly enhanced data entry.

### DIAGNOSTICS

Built-in diagnostics provide for improved maintenance and easier repairs. Internal diagnostics allow operator tests on all input and output signals, RAM devices, and memory. A built-in EEPROM eraser allows for a "clear-all" memory function.

### COMMUNICATIONS

Four RS-232 ports are available. These ports are keyboard programmable with selectable baud rates from 300 to 19.2K with full and half duplex options. Various communication configurations allow the user multiple interfaces to other cabinet devices: conflict monitor, preemption equipment, detectors, WWV clocks, modems, notebooks, printers, etc.

**Voltage:** 95 to 135 VAC 60 HZ

**Power:** 30 Watts Maximum

**Temperature:** -30° to 165° F

**Humidity:** 0 to 95 percent

**Dimensions:** Height: 10.50"

Width: 14.75"

Depth: 8.20"

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