Trafficware

Engineered by Naztec

Model 980 NEMA TS2 Type 1 Signal Controller

Traffic Responsive Secondary

The Model 980 NEMA Traffic Signal Secondary Controller is designed using state of the art electronics to ensure reliability, a long life, and superb performance in all signal control applications. The advanced architecture and NTCIP compliance provides the traffic engineer with a flexible platform for the future.

The Model 980 Secondary Controller meets and exceeds NEMA TS2 specifications, and includes advanced functionality for complex phasing, detector processing, coordination, preemption, communications, adaptive timing, as well as full systems operation in a closed-loop, hybrid, or centralized configuration.

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.

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Series 980 NEMA TS2 Type 1 Signal Controller

Features

FLASH PROMS

The Model 980 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.

DISPLAY

A backlit, 4-line by 40-character supertwist LCD display provides full-menu screens for eased data entry. The display maintains optimum contrast and brightness over the entire NEMA specified temperature range, using special temperature-compensating circuitry. The menu-driven format and context sensitive help

EASILY SERVICED

The Model 980 Controller consists of only two printed circuit boards (three with optional modem) 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

REAL-TIME CLOCK

The real-time clock maintains accurate timing by utilizing a “super capacitor” which allows for 0.005% accuracy 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 Trafficware 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 four (4) red function keys, six (6) gray cursor movement keys, and ten (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

Two RS-232 ports and an optional FSK modem port are available with each secondary unit. 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. A RS-485 SDLC Bus Interface Port is provided for all TS2 applications. The NTCIP protocol is fully supported.

Voltage:	89 to 135 VAC 60 HZ
Frequency:	30 Watts Maximum
Temperature:	-30° F to 165° F
Humidity:	0 to 95 percent
Dimensions:	Height: 10.50”
	Width: 14.75”