

980 NEMA TS2 Type 2 Local Controller



Traffic Responsive Local

The **Model 980 NEMA Traffic Signal Local 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 Local 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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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 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 need for programming instructions or look-up codes.

EASILY 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 compo-

nents. 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 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 pro-

grammable barriers. Four (4) separate batteries allow programming for applica-

tions 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.

DIAGNOSTICSBuilt-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 mo-

dem port are available with each local 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
Power: 30 Watts Maximum

Temperature: -30° F to 165° F
Humidity: 0 to 95 percent
Dimensions: Height: 10.50"

Width: 14.75" Depth: 8.20"



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