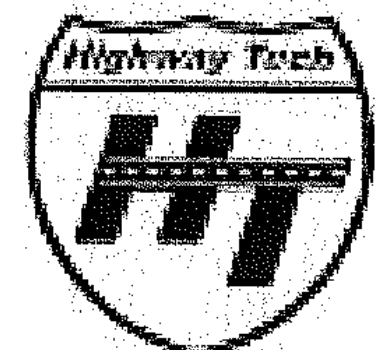


# Series 980 NEMA TS2 Type 2 Signal Controller

## 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 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 need for programming instructions or look-up codes.
- 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 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 barriers 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** 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, WWW clocks, modems, notebooks, printers, etc. A RS-485 SDLC Bus Interface Port is provided for all TS2 Applications. The NTCIP protocol is fully supported.

### Your Naztec Representative:



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**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"