

OVERVIEW

The 980 ATC Traffic Signal Controller uses state-of-the-art electronics to ensure reliability, endurance, and superb performance in all signal control applications. Based on the ATC and NEMA TS2 standards, the 980 ATC Controller includes advanced functionality for complex phasing, detector processing, coordination, preemption, communications, adaptive timing, and systems operation as a master or a secondary controller.



Pictured above: 980 ATC Type 1 Controller with Ethernet & USB

FEATURES & CAPABILITIES

FLASH FILE SYSTEM

Easily configure the 980 Controller to various firmware versions using a Flash File System, eliminating the need for obsolete EPROM technology. Perform a complete traffic controller firmware update in only seconds instead of minutes, saving valuable time in the field.

No hardware changes or EPROM replacements are required.

MASTER/SECONDARY

Operation in a Closed Loop System requires only one 980 Controller in the master cabinet. A single controller simultaneously provides both the master and secondary functions.

REAL-TIME CLOCK

The real-time clock maintains accurate timing by utilizing a “supercapacitor” and crystal-controlled circuitry, which allows for 0.005% accuracy.

DISPLAY

Easily input data using the backlit, 8-line by 40-character LCD screen with full-menu views. Temperature-compensating circuitry maintains optimum screen contrast and brightness for clear communication.

The menu-driven format helps eliminate the need for special codes or front panel identification characters.

MAINTENANCE

The 980 Controller’s modular design allows users to isolate sub-assembly level problems quickly.

Silk-screen printed circuit board components provide easy identification.

No specific tools or extender cards are needed for troubleshooting.

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FEATURES & CAPABILITIES (CONTINUED)

NTCIP OBJECTS

NTCIP Standard objects and additional objects enhance the 980 Controller with new and standard ATC operating features.

Experience the ultimate flexibility in traffic control with sixteen phases, sixteen overlaps, ten compatible phases per phase, alternative programming by time-of-day.

KEYBOARD

Easily navigate the 980 Controller using a custom 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 improved maintenance and simplified repairs, allowing operators to test 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 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.

SPECIFICATIONS

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|--------------|----------------------------|
| 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 |

