



August 11, 1999

B-110

CPU-5000 Central Processing Unit

Section: Conventional Fire Alarm Control Panels

GENERAL

Used on the NOTIFIER **System 5000** Conventional Fire Alarm Control Panel, the **CPU-5000** communicates with optional modules and directs their actions.

FEATURES

- Two supervised Style Y or Style Z (Class B or A) alarm indicating circuits.
- Form-C relay contacts to indicate System Trouble.
- Form-C relay contacts to indicate System Alarm.
- Reverse-polarity transmitters for alarm and trouble signaling.
- Local energy municipal box output.
- Indicating circuits, remote-station trouble output, and remote-station alarm output are power-limited for use with limited-energy cable.
- Attractive inserts for label identification of all circuits, with space for 30 characters of information each entered with a standard typewriter (module windows 0.875" [22.225 mm] high x 0.975" [24.765 mm] wide).
- Removable terminal blocks for ease of service.
- Distributed microprocessor electronics.
- Field-programmable in nonvolatile memory.
- Alarm and Trouble re-sound.
- Large system capacity.

APPLICATIONS

One CPU-5000 is used in the System 5000 to provide indication and control of common panel functions and two alarm indicating circuits. It monitors a Main Power Supply and up to 15 system modules.

CONSTRUCTION

The CPU-5000 consists of a pair of panel-mounted printed circuit cards with an integral tactile-feel membrane switch. Windows in the membrane panel allow viewing the indicator LEDs. Slide-in pockets allow the insertion of descriptive labels for the indicators and switches. Removable terminal blocks are provided for connection of field wiring.

INSTALLATION

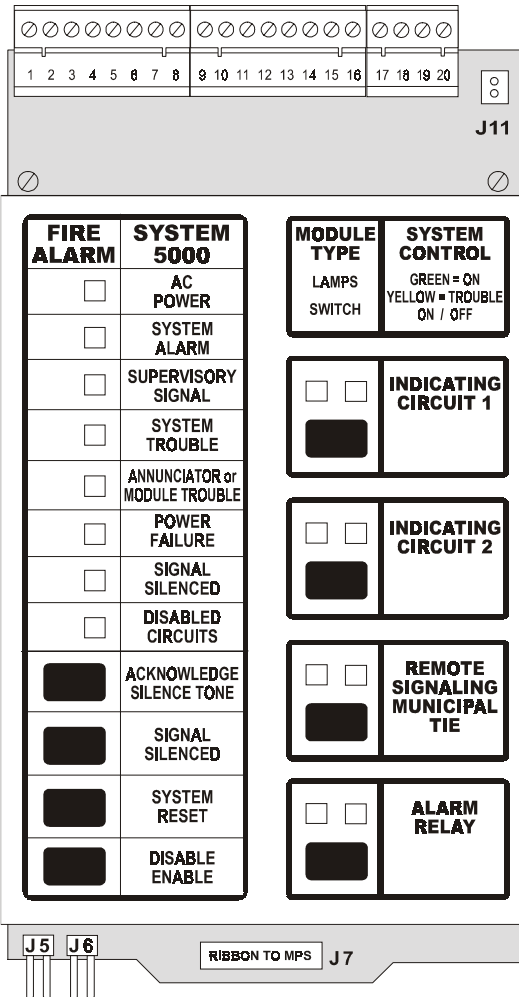
The CPU-5000 may be installed in the upper-left corner of a NOTIFIER CAB-A3, CAB-B3, CAB-C3, or CAB-D3 enclosure on a CHS-4 mounting chassis. Connect the power ribbon, power harness, and power harness from the CPU-5000 to the main power supply.



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Connect the first-row ribbon cable from the CPU-5000 to the other modules located in the same CHS-4 chassis. Connect expander ribbon cable(s) from the CPU-5000 to modules in other CHS-4 units. Refer to the *System 5000 Installation Manual* for detailed instructions.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118

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ISO-9001
Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001



INDICATORS

- **AC POWER** indicates the presence of normal AC power.
- **SYSTEM ALARM** flashes to indicate alarm, steady to indicate acknowledged alarm.
- **SUPERVISORY SIGNAL** indicates a supervisory signal.
- **SYSTEM TROUBLE** flashes to indicate trouble, steady to indicate acknowledged trouble.
- **ANNUNCIATOR or MODULE TROUBLE** indicates an annunciator or module trouble.
- **POWER FAILURE** indicates a power supply trouble, battery trouble, low or no AC voltage, or ground fault.
- **SIGNAL SILENCED** indicates that the output circuits have been silenced.
- **DISABLED CIRCUITS** indicates that circuits have been manually disabled.
- **GREEN** indicates that a notification circuit, remote signaling municipal tie, or alarm relay has been activated.
- **YELLOW** indicates that an indicating circuit or remote signaling municipal tie has a trouble condition or has been disabled.

CONTROL SWITCHES

- ACKNOWLEDGE
- SIGNAL SILENCE
- SYSTEM RESET
- DISABLE/ENABLE
- INDICATING CIRCUIT 1: ON/OFF
- INDICATING CIRCUIT 2: ON/OFF
- REMOTE SIGNALING MUNICIPAL TIE: ON/OFF
- ALARM RELAY: ON/OFF (OR DRILL)

PROGRAMMING FUNCTIONS

- Completely field-programmable and configurable by use of built-in switches. Does not require knowledge of programming language.
- Separate access for initial system programming and system program changes (requires programming key and access code).
- Each indicating circuit or control circuit is field-programmable to respond to a single initiating zone, a group of initiating zones, or all initiating zones.

Refer to the *System 5000 Programming Manual* for detailed instructions.

SPECIFICATIONS

- **Notification Appliance circuits:**
 - Maximum current for both circuits:* 3.0 amps.
 - Maximum current per circuit:* 3.0 amps.
 - End of line device:* 4.7K ohm, 1/2 watt resistor, for Style Y configuration only.
- **Trouble contacts:**
 - Intended for low-current switching contact rating: 2.0 amps @ 30 VDC or 1.0 amp @ 125 VAC resistive.
 - Form-C (SPDT) bifurcated, silver alloy, gold-clad contacts.
- **Remote station alarm-or-trouble output:**
 - 24 VDC nominal, polarity-reversal type.
 - 1360 ohm nominal internal resistance.
 - 10 mA maximum current rating.
- **Alarm contacts:**
 - Intended for medium-duty switching.
 - Contact rating:* 5.0 amps at 30 VDC or 125 VAC resistive.
 - Form-C (SPDT) silver alloy, gold-plated contacts.
- **Local energy municipal box output:**
 - Nominal trip coil characteristics should be:
 1. Trip coil current: 0.25 amperes.
 2. Coil voltage: 3.65 VDC.
 3. Coil resistance: 14.6 ohms.
 4. Maximum wire resistance in external loop: 5 ohms.
- **Standby current consumption:** 0.031 amps.
- **Alarm current consumption:** 0.223 amps.
- **Terminal blocks** will accept #12 to #22 AWG wire.
- **EIA-485 output** operating at 20 K baud.

PRODUCT LINE INFORMATION

Order as a part of **BE-5000** Base Equipment package. *For more product line information, see data sheet DN-1 on the System 5000.*