

FEATURES

- 198 intelligent device capacity (99 analog detectors and 99 monitor/control modules). Style 4, 6, or 7.
- Overall 301 point capability (198 intelligent points, 4 programmable bell circuits, 99 programmable relays).
- Sensitivity display in % per foot obscuration.
- Manual sensitivity adjustment.
- Day/Night automatic sensitivity adjustment.
- Drift compensation (U.S. Patent Pending) meets UL requirements as a calibrated test instrument.
- Auto detector test (meets NFPA 72).
- Maintenance alert.
- Pre-alarm (AWACSTM – U. S. Patent Pending).
- LED blink control.
- Automatic device type check.
- Releasing capability of four independent hazards.
- Three cross-zone options.
- Delay timer and Discharge timers (adjustable).
- Abort (four options).
- Optional Digital Alarm Communicator/Transmitter, with AC fail delay.
- LCD-80 remote display/control (up to 4 per control unit).
- Directory annunciators (R5-485), and lamp driver for graphic annunciators.
- Printer interface (80 column and 40 column printers).
- 5.0 A usable regulated output power, plus 3.0 A expander.
- 80 character LCD display, back-lit.
- Real time clock, with European format option.
- History file with 650 event capacity in nonvolatile memory.
- Waterflow or supervisory selection per point.
- Alarm Verification selection per point, with tally.
- Walk Test reports 2 devices set to same address.
- Positive Alarm Sequence (PAS) Presignal per NFPA 72.
- Silence inhibit and Auto Silence timer options.
- March time/temporal/California code for bell circuits.
- Field-programmable on panel or on PC with user-defined passwords, plus Autoprogram feature.
- Interactive modem interface allows readout of all status, program, history and analog information over dial-up phone lines to remote monitoring sites.
- Optional voltmeter and ammeter displaying battery voltage and charging current.



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DESCRIPTION

The Pyro-Chem PCR-400IP is a compact, cost effective, analog addressable, releasing and fire alarm control unit with a capacity of 301 individually identified and controlled points and an extensive list of powerful features. It provides capabilities that exceed most large intelligent systems at a cost comparable to conventional control systems.

Field programming can be accomplished in three different ways:

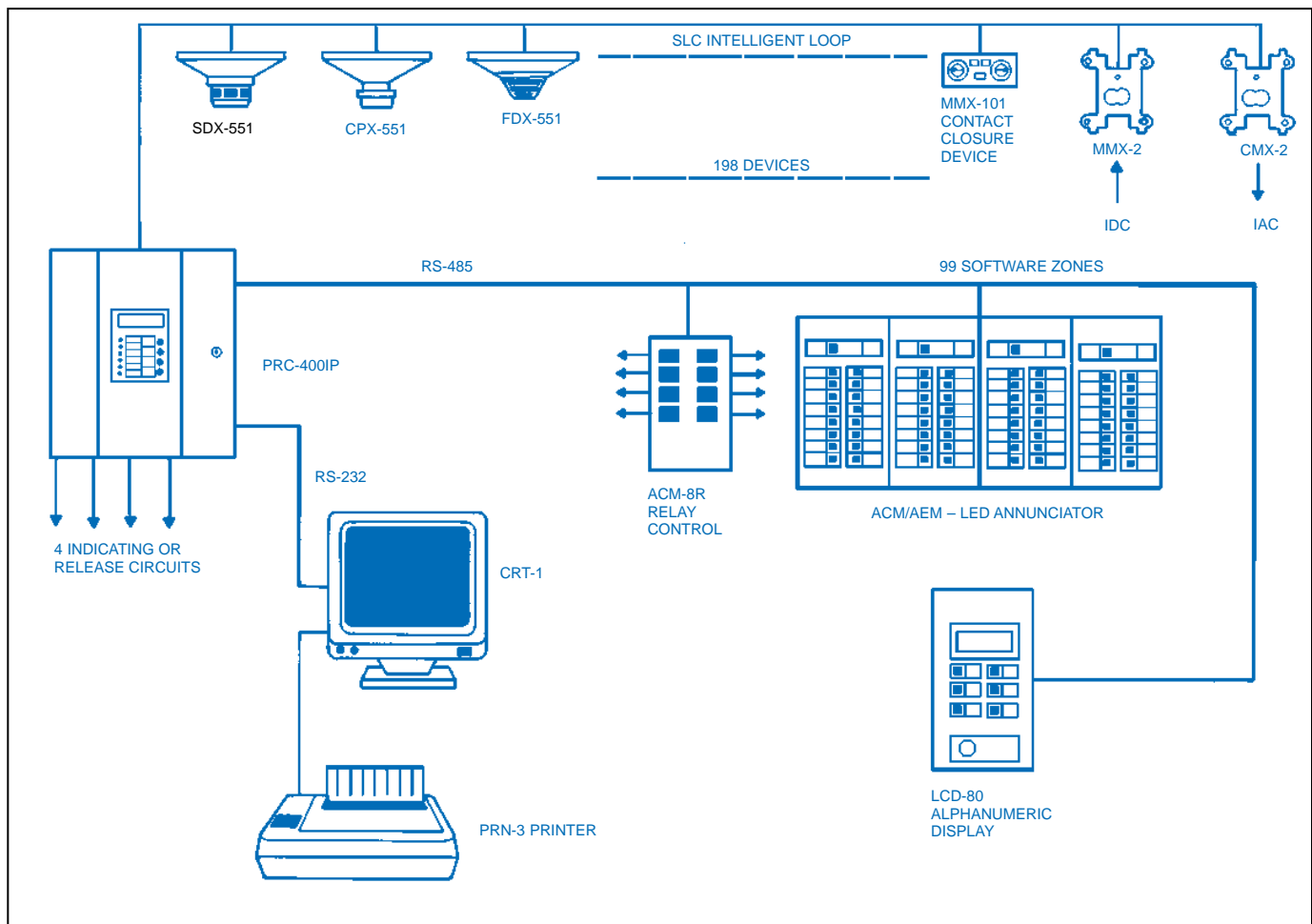
1. **AUTO-PROGRAM** – The PCR-400IP system identifies all devices that are connected, determines the type of device, and loads default values (general alarm) into non-volatile memory. This is completed in less than 30 seconds.
2. **ON-LINE EDIT** – While still providing fire protection, the PCR-400IP system program may be completely edited from the front keyboard. Menu trees permit easy change of any parameter without referral to the programming manual. New program check routine catches common errors.
3. **OFF-LINE PC** – The complete PCR-400IP system program may be created in an off-line PC compatible computer, then loaded into the PCR-400IP RS-232 port. The program may also be off-loaded to a PC at any time. High speed data transfer completes upload or download in less than one minute.

APPLICATION

The PCR-400IP control system is ideal for industrial, commercial, and institutional facilities where an analog addressable control system is needed to detect fire, and if required, actuate a fixed fire suppression system. In addition this system can be used as a combination fire/burglary and burglary system, critical process monitoring, and tornado warning. Analog smoke detector sensitivity is monitored by the control unit which will indicate a special trouble condition if the detectors sensitivity moves outside the listed range. All devices can be installed on the single addressable loop with up to 99 analog addressable detectors and 99 addressable modules for conventional smoke detectors, heat detectors, manual pull stations, supervisory switches, alarm devices, releasing devices, and relays. The control unit can be programmed to provide the specific operating sequence required for the project.

Detectors can be programmed to operate as single zone or cross zoned for controlling agent release with time delays and abort capabilities. The control system is listed by UL and ULC and approved by FM and complies with NFPA 72 National Fire Alarm Code and should be installed in accordance with NFPA 70, National Electrical Code.

Networking and System



TECHNICAL SPECIFICATIONS

Primary input power – 120 VAC, 50/60 Hz, 3.0 Amp

Total output power – 24 VDC, 5.0 A

Four bell circuits – 2.25 A each

Auxiliary 24 VDC power available – 500 mA total

- Four-wire detector power
- Non-reset regulated power
- High ripple regulated power

Battery charger range – 7 AH to 17 AH

Charge high rate – 29.1 VDC @ 0.7 Amp

Charge float rate – 27.6 VDC @ 0.5 Amp

Relay contact rating – 2.0 A @ 30 VDC resistive, 0.5 A @ 30 VAC resistive, alarm and trouble form-C, supervisory form-A.

SYSTEM CAPACITY

Total programmable input/output points – 301

Intelligent detectors – 99

Addressable monitor/control modules – 99

Programmable IAC (bell) circuits in panel – 4

Programmable software zones – 99

Programmable remote relay/annunciator points – 99

LCD-80 annunciators per system – 4

ACS annunciators per system – 10

LISTINGS AND APPROVALS

UL Listed for Fire Signaling per Standard 864

UL Listed for Burglary applications per Standard 1076

UL Listed for Releasing per NFPA 12, 12A, 12B, 13, 15, 16, 17, and 2001

UL Listed for Critical Process Monitoring

ULC Listed

FMRC Approved

California State Fire Marshal Approved

MEA Approved (City of New York)

AWACS™ Advance Warning Addressable Combustion Sensing (U.S. Patent Pending)

