

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 (AWACS™ – 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.



DESCRIPTION

The AUTOPULSE IQ-301 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 AUTOPULSE IQ-301 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 AUTOPULSE IQ-301 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 AUTOPULSE IQ-301 system program may be created in an off-line PC compatible computer, then loaded into the AUTOPULSE IQ-301 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 AUTOPULSE IQ-301 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.

The control system also meets the requirements of the various standards for fire suppression systems including: NFPA 11, Foam Extinguishing Systems; NFPA 11A, Medium and High Expansion Foam Systems; NFPA 12, Carbon Dioxide Systems; NFPA 12A, Halon 1301 Systems; NFPA 13, Sprinkler Systems; NFPA 15, Water Spray Systems; NFPA 16, Foam/Water Deluge and Foam/Water Spray Systems; NFPA 17, Dry Chemical Systems; NFPA 17A, Wet Chemical Systems; NFPA 2001, Clean Agent Fire Extinguishing Systems.

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

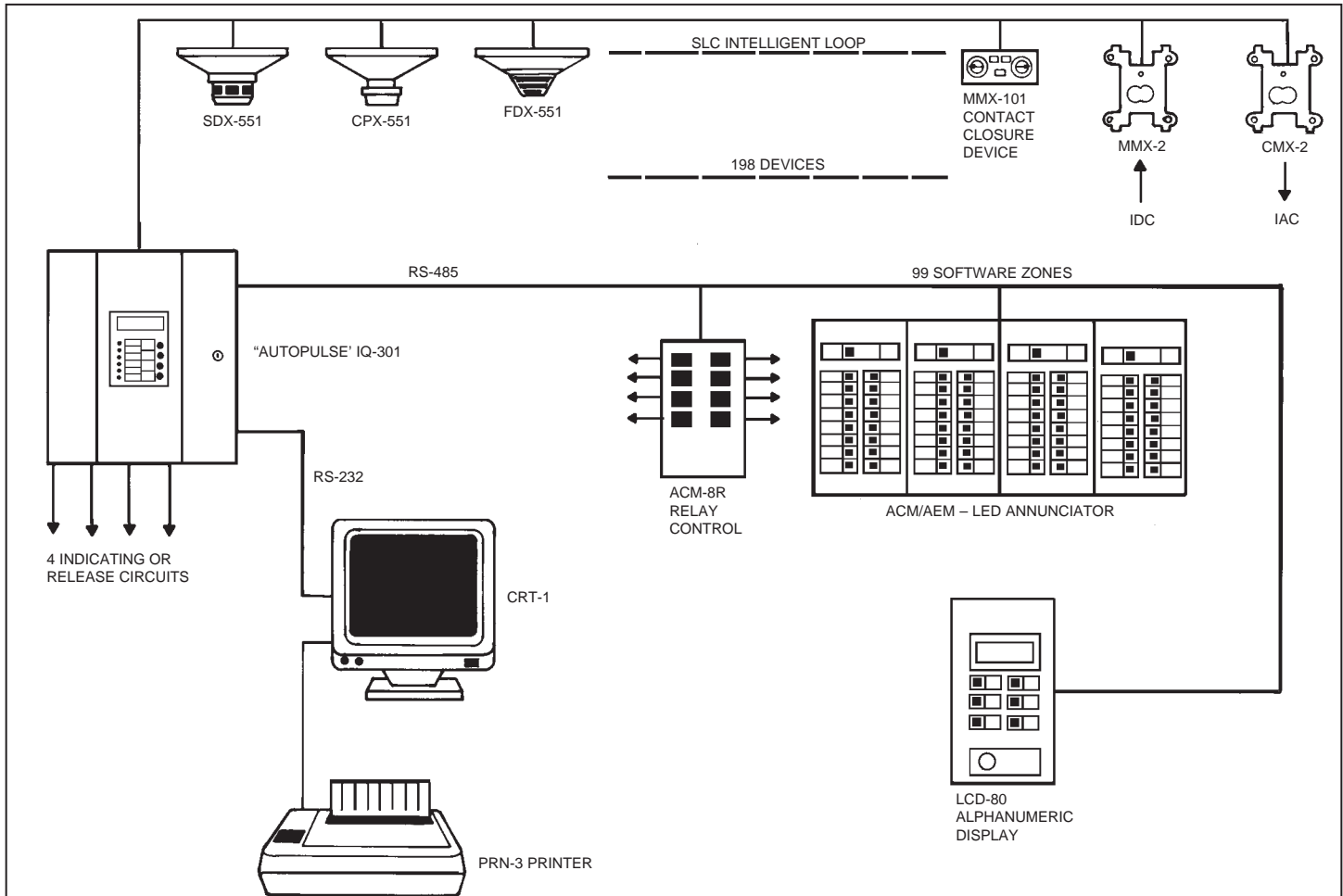
Battery charger range – 7 AH to 17 AH

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.

Networking and System Peripherals



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 (S4935)
- UL Listed for Burglary applications per Standard 1076
- UL Listed for Releasing per NFPA 12, 12A, 12 B, 13, 15, 16, 17, and 2001
- UL Listed for Critical Process Monitoring
- ULC Listed (CS333, CS412)
- FMRC Approved (0V4A5.AY)
- California State Fire Marshal Approved
- MEA Approved (City of New York)

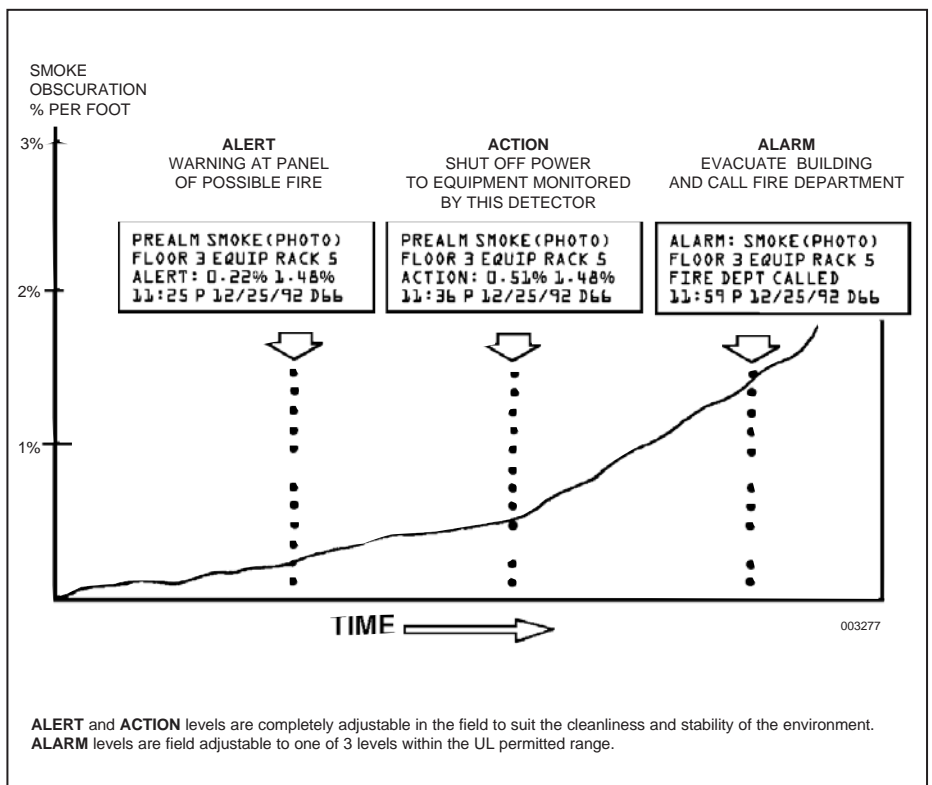
ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Complete specifications available on disk.

ORDERING INFORMATION

Part No.	Description	Shipping Weight	
		lb.	(kg)
417463	AUTOPULSE IQ-301, Analog Addressable Control Panel, Red, 120 VAC	30	(13.7)
417464	AUTOPULSE IQ-301, Analog Addressable Control Panel, Grey, 120 VAC	30	(13.7)
417465	AUTOPULSE IQ-301, Analog Addressable Control Panel, Grey, 220 VAC	30	(13.7)
417466	Audible/Visual 3 A Power Supply, AVPS-24	5	(2.3)
417467	PK-IQ-301, Programming Kit for AUTOPULSE IQ-301	2	(.9)
417692	Battery Pack, 7 AH, 24 VDC	15	(6.8)
417693	Battery Pack, 12 AH, 24 VDC	22	(9.9)
417470	4XTM, Plug In Transmitter Module, Municipal Box and Remote Station Connection	2	(.9)
417471	RTM-8, Plug In Relay/Transmitter Module, 8 Form C Relay Contacts Plus Transmitter	2	(.9)
417472	4XMM, Ammeter – Voltmeter Module	2	(.9)
417473	Full Length Dead Front Dress Plate (Canada)	2	(.9)
417474	TR-4XG, Trim Ring for Semi-Flush Mounting, Grey	2	(.9)
417475	TR-4XR, Trim Ring for Semi-Flush Mounting, Red	2	(.9)
417476	MMX-1, Monitor Module	2	(.9)
417477	MMX-2, Monitor Module, 2-Wire Detector	2	(.9)
417478	MMX-101, Mini Monitor Module	2	(.9)
417479	CMX-2, Control Module	2	(.9)
417480	ISO-X, Isolator Module	2	(.9)
417481	CPX551, Ionization Detector, Analog Addressable	2	(.9)
417482	SDX551, Photoelectric Detector, Analog Addressable	2	(.9)
417483	SDX551TH, Photoelectric with 135° F (57° C) Thermal Detector, Analog Addressable	2	(.9)
417484	FDX551, Thermal Detector, Analog Addressable	2	(.9)
417485	FDX551R, Thermal Detector/ROR, Analog Addressable	2	(.9)
417486	BX501, Detector Base, Analog Addressable	1	(.5)
417487	B501, Detector Base, Flangeless	1	(.5)
417488	B501BH, Detector Base with Audible, Analog Addressable	2	(.9)
417492	LCD-80, 80 Character LCD Annunciator	5	(2.3)
417493	Surface Mount Back Box for LCD-80	1	(.5)
417657	Flush Mount Back Box for LCD-80	1	(.5)
417660	Annunciator Key Switch	1	(.5)

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



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