GENERAL
The AUTOPULSE IQ-318 intelligent Fire Alarm Control Panel is part of the AUTOPULSE Series of Fire Alarm Control from ANSUL. Designed for use in automatic fire suppression applications, it provides a wide range of features to meet the needs of small building applications, as well as additional peripheral equipment to suit the needs of larger buildings.

FEATURES
• UL 864, 9th Edition. (Fire). It is designed to meet NFPA 72 Fire Alarm Systems Requirements.
• Standardized system configuration provides for multi-tenant, multi-building, or other applications.
• Field-programmable on panel or on PC, with VeriFire Tools program system.
• 80-character remote annunciators (up to 32).
• Local and Remote Circuit Board (RCB) annunciators, including custom graphics.
• Up to 159 outputs in less than five seconds.
• Autoprogramming and Walk Test reports.
• PROPRIETARY (Automatic, Manual and Waterflow).
• Audible and visual signaling.
• Automatic time control functions, with holiday exceptions.
• Remote ACK/Signal Silence/System Reset/Drill via monitor.
• EIA-485 annunciators, including custom graphics.
• Powerful Boolean logic equations.
• Slow moving part to fail or filters to change.
• Advanced intelligent sensing algorithms differentiate between smoke and non-smoke signals (U.S. Patent 5,831,524).
• Disable/Enable switch for this feature.
• Multi-detector algorithm processes nearly 100% of detector data continuously.
• User Friendly Interface.
• Change for up to 99 of standing power.
• Non-alarm point for lower priority functions.
• Remote ACK/Signal Silence/System Reset/Drill via monitor.
• Automatic control function control, with holiday exceptions.
• Surface-mount Technology (SMT) electronics.

Data/Specification Sheet
Acclimate Plus low-profile intelligent multi-sensor:
- Automatically adjusts sensitivity levels based on previous event or difference in thermal technology.
- FlashScan or classic mode compatible with NFPA 72.
- Low-profile FlashScan ionization detector.
- Low-flow FlashScan photo duct detector

PRE-ALARM
- Requires auxiliary 24 VDC from system or remote power supply.
- Has a built-in 15 A Slo-Blow Fuse, P/N 12057.
- European-style, 4 in. (10.16 cm) base.
- FlashScan VIEW laser photo detector.
- Low-profile FlashScan photoelectric detector,
- Remote six-amp and eight-amp

DETECTION
- Nine sensitivity levels are provided for alarm detection. These levels can be set manually, or can change automatically between day and night. Nine levels of pre-alarm detection. These levels can be set manually, or can change automatically between day and night. Nine levels of pre-alarm detection.

INTelligent SENSING
- The AUTOPULSE IQ-318 features software algorithms that improve its detection capabilities. These algorithms allow the system to adapt to its environment and make it possible for the system to adapt to the changing conditions of the environment.

Cooperating Multi-Detector Sensing
- A potential feature of intelligent sensing is the ability of a single sensor to consider readings from nearby sensors in making a final decision. This can be very useful in environments where traditional smoke detectors are not practical.

Drift Compensation
- Drift compensation reduces the effects of false alarms due to particle buildup in the detection chamber.

Trouble Relay
- Trouble Relay is a feature that alerts the installer to any problems with the system, such as a faulty sensor or a power supply issue.

Application of the AUTOPULSE IQ-318
- The AUTOPULSE IQ-318 is suitable for use in a variety of environments, including commercial and residential buildings, and can be used in conjunction with other VeriFire™ Tools system components.

Placement of Equipment in Chassis and Cabinet
- All NAC circuits are power-limited, supervised.

Field Programming Options
- The AUTOPULSE IQ-318 allows the installer to set alarms, NACs 1-4

Configuration Guidelines
- The AUTOPULSE IQ-318 is designed to be easy to install and maintain. It is suitable for use in a variety of environments, including commercial and residential buildings, and can be used in conjunction with other VeriFire™ Tools system components.

COMPATIBLE INTELLIGENT DEVICES
- The AUTOPULSE IQ-318 is designed to be compatible with a variety of intelligent devices, including:

- ACM-48A
- ACM-48
- ACM-24AT
- FCPS-24S6/-24S8
- AEM-48A
- FSP-751
- FSP-851
- FSD-751P
- KAPS-24
- LDMR32

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Place the AUTOPULSE IQ-318
- The AUTOPULSE IQ-318 is designed to be easy to install and maintain. It is suitable for use in a variety of environments, including commercial and residential buildings, and can be used in conjunction with other VeriFire™ Tools system components.
FEATURES (Continued)

• Acclimate Plus low-profile intelligent multi-sensor—integrates electronic controls with level and speed/flow sensor detection or programming. Sensitivity increases with level.

• Ease of installation; reduced wiring on-board technology and thermal technology.

• flaming or dense smoke compatible with NFPA-440 and

• NPS-21

• Low-temperature warning signal at 60 °F (16 °C), 25 +/– 5 °F (12 +/– 3 °C).

• M40-Multi-Detector Area Sensor—Provides early warning of intense detectable in extreme areas where standard area sensors detect in total. The detector features lowers parameter point to 30 +/– 20 °C.

• Inflated brush does not contact

• 120–240 VAC

• High-efficiency offline switching 3.0 amp power supply (6.0 A in alarm):

• Abort (four options)

• FlashScan or classic mode compatible with NFS2-636, NFS-318.

• Detector automatically adjusts sensitivity without

• Self-optimizing Pre-Alarm:

• Intelligent sensing is the ability of a smoke sensor to consider sensitivity can also be selected, based on predetermined levels

• Overload Protection:

• Power-limited source.

• Alarm, NACs 1-4

• System switches, LED3:

• Ground Fault

• Power-limited); Hot,

• LED1:

• LED2:

• LED5:

• LED4:

• LED6:

• TB12:

• TB11:

• TB10:

• TB9:

• TB8:

• TB7:

• TB6:

• TB5:

• TB4:

• TB3:

• J8:

• J7:

• J6:

• J5:

• J4:

• J3:

• J2:

• J1:

• Security

• Supervisory,

• LED10:

• LED9:

• LED8:

• LED7:

• LED1:

• LED6:

• LED5:

• LED4:

• LED3:

• LED2:

• System switches,

• LED1:

• System switches,

• TB13:

• Trim ring for the AUTOPULSE IQ-318 cabinet.

• Same LED and switch capabilities as

• ACS annunciator – up to 96 points of

• LPX-751:

• FSL-751:

• FST-851H:

• FST-751R:

• FST-851R:

• FSP-851T:

• FSI-851:

• Universal Digital Alarm Communicator

• PLACEMENT OF EQUIPMENT IN CHASSIS AND CABINET

The following guidelines outline the AUTOPULSE IQ-318 cabinet system design:

It is critical that all mounting holes of the AUTOPULSE IQ-318 are accessible with a screwdriver to ensure conformity of the

• CONFIGURATION GUIDELINES

The AUTOPULSE IQ-318 cabinet includes the following circuits:

1. Alarm, NACs 1-4

2. System switches

3. LED1:

4. LED6:

5. LED4:

6. LED2:

7. LED5:

8. LED3:

9. TB12:

10. TB11:

11. TB10:

12. TB9:

13. TB8:

14. TB7:

15. TB6:

16. TB5:

17. TB4:

18. TB3:

19. J8:

20. J7:

21. J6:

22. J5:

23. J4:

24. J3:

25. J2:

26. J1:

27. LED1:

28. LED3:

29. LED2:

30. LED5:

31. LED4:

32. LED6:

33. TB13:

34. LED1:

35. LED6:

36. LED4:

37. LED2:

38. LED5:

39. TB12:

40. TB11:

41. TB10:

42. TB9:

43. TB8:

44. TB7:

45. TB6:

46. TB5:

47. TB4:

48. TB3:

49. J8:

50. J7:

51. J6:

52. J5:

53. J4:

54. J3:

55. J2:

56. J1:

57. Security

58. Supervisory,

59. LED10:

60. LED9:

61. LED8:

62. LED7:

63. LED1:

64. LED6:

65. LED5:

66. LED4:

67. LED3:

68. TB12:

69. TB11:

70. TB10:

71. TB9:

72. TB8:

73. TB7:

74. TB6:

75. TB5:

76. LED1:

77. LED6:

78. LED4:

79. LED2:

80. LED5:

81. J8:

82. J7:

83. J6:

84. J5:

85. J4:

86. J3:

87. J2:

88. J1:

89. Security

90. Supervisory,
**FEATURES (Continued)**

- **Acclimate Plus low-profile intelligent multi-sensor:**
  - Automatically adjusts sensitivity levels based on indoor/outdoor temperature and humidity.
  - Supports true temperature compensation.
  - Adjustable sensitivity levels from 40°F to 120°F (4°C to 49°C).
  - Ideal for uses with high variations in ambient conditions.

**FIRESCAN Small Single-Loop Detector:**

- **Low-pressure CO detector:**
  - Monitors low-pressure CO in indoor air, as small as 20 microns in size.
  - Operates on 24 VDC power supply.

**Features page continued:**

**Wired/WTM Tools System Programming System:**

- **Equipment Placement in AUTOPULSE IQ-318 Chassis:**
  - The following guidelines outline the AUTOPULSE IQ-318 system design.
  - It is critical that all mounting holes of the AUTOPULSE IQ-318 are aligned with a drill bit to ensure correct alignment of the chassis.

**PLACEMENT OF EQUIPMENT IN CHASSIS AND CABINET**

- **Configuration Guidelines:**
  - The AUTOPULSE IQ-318 system includes various detector and annunciator options.
  - System switches, annunciator circuits, and one municipal box circuit; mount on
  - Panel ships factory-assembled with chassis installed.
  - Panel is designed for up to 96 points of expansion, and includes one 128 character LED display unit.

- **Definition of LED colors:**
  - Green, or yellow; the Trouble LED is always yellow.
  - (by powered-up switch selection) by point to be red, green, or yellow; the Trouble LED is always yellow.
  - Active/Alarm LEDs can be programmed annunciation with Alarm or Active LED, Trouble LED, and

- **Typical three-wire loop system:**
  - Triple-wire three-wire loop system; continuous monitoring of alarms and pre-alarm levels.
  - Requires auxiliary 24 VDC from system or remote power supplies.
  - Panel is designed for up to 96 points of expansion, and includes one 128 character LED display unit.
  - Panel ships factory-assembled with chassis installed.
  - Panel is designed for up to 96 points of expansion, and includes one 128 character LED display unit.

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  - (by powered-up switch selection) by point to be red, green, or yellow; the Trouble LED is always yellow.
  - Active/Alarm LEDs can be programmed annunciation with Alarm or Active LED, Trouble LED, and
**Cabinet Specifications**

**AUTOPULSE IQ-318 (90-cabinet drawers)**

- **DIMENSIONS:** 46.025 cm (18.120 in.) width, 14.775 cm (5.817 in.) deep, height varies (14.656 cm (5.77 in.) to 16.949 cm (6.681 in.)

- **Laser:** 563.7 nm (green) to 650 nm (red)

- **Temperature range:** 5°C to 40°C (41°F to 104°F)

**OTHER OPTIONS**

- **VERITAS:** Veritase ESAR control module.
- **FlashScan:** FlashScan six-circuit supervised control module.
- **FlashScan:** FlashScan six-circuit interface module (requires 4XTMF).
- **FlashScan:** FlashScan six-zone interface module; connects to Supervisory (requires 4XTMF).