

# PROACTIV® Fire Alarm Control Panel

VFP-2000 Series



## System Features

- Integrated Very Early Warning fire protection system
- NFPA 72 Protective System compliance:
  - Local Protected Premises System
  - Auxiliary System
  - Remote Station System
  - Proprietary Protective System
  - Proprietary Receiving System
  - Central Station System
- Networking of up to 32 FACP systems, supporting logical groups
- Comprehensive configuration, commissioning and system diagnostics using the VSC software
- Graphical monitoring using the optional PSM software

## FACP Features

- 1 VESDAnet SLC, supporting configuration, monitoring and control of VESDA aspirating smoke detectors
- 2 or 4 PRECISION™ SLCs, supporting up to 1004 addressable devices (total), including:
  - PRECISION LaserCOMPACT Aspirating Detectors
  - Intelligent Point Detectors
  - Addressable Input / Output Devices
- 1 PROACTIV Ancillary SLC, supporting a range of annunciation, control and output modules
- Release device service
- Remote station reporting via DACT
- Municipal Alarm reporting via Master Box connection
- Alarm threshold flexibility on all supported detectors
  - 5 operating modes and 3 alarm levels for PRECISION point detectors
  - Wide sensitivity range and up to 4 alarm levels for VESDA detectors
  - Day/night and holiday settings
- Automatic drift compensation for PRECISION detectors
- Simplified deployment using Auto-Program
- Surface or recess-mounted enclosure
- Access control using keylock and password protection
- Multiple language support

## Listings/Approvals

- UL 864 9th Edition

## Product Description

The PROACTIV® Fire Alarm Control Panel (FACP) provides system designers and operators with a cost-effective and advanced Very Early Warning fire protection system.

The powerful combination of VESDA Air Sampling Detectors and PRECISION point detection devices provide PROACTIV with all the capabilities necessary to protect today's modern facilities. The expandable modular architecture allows for staged installation and commissioning.

## Applications

Easily expandable and flexible, the PROACTIV FACP is ideally suited for high-risk commercial, institutional and industrial installations including:

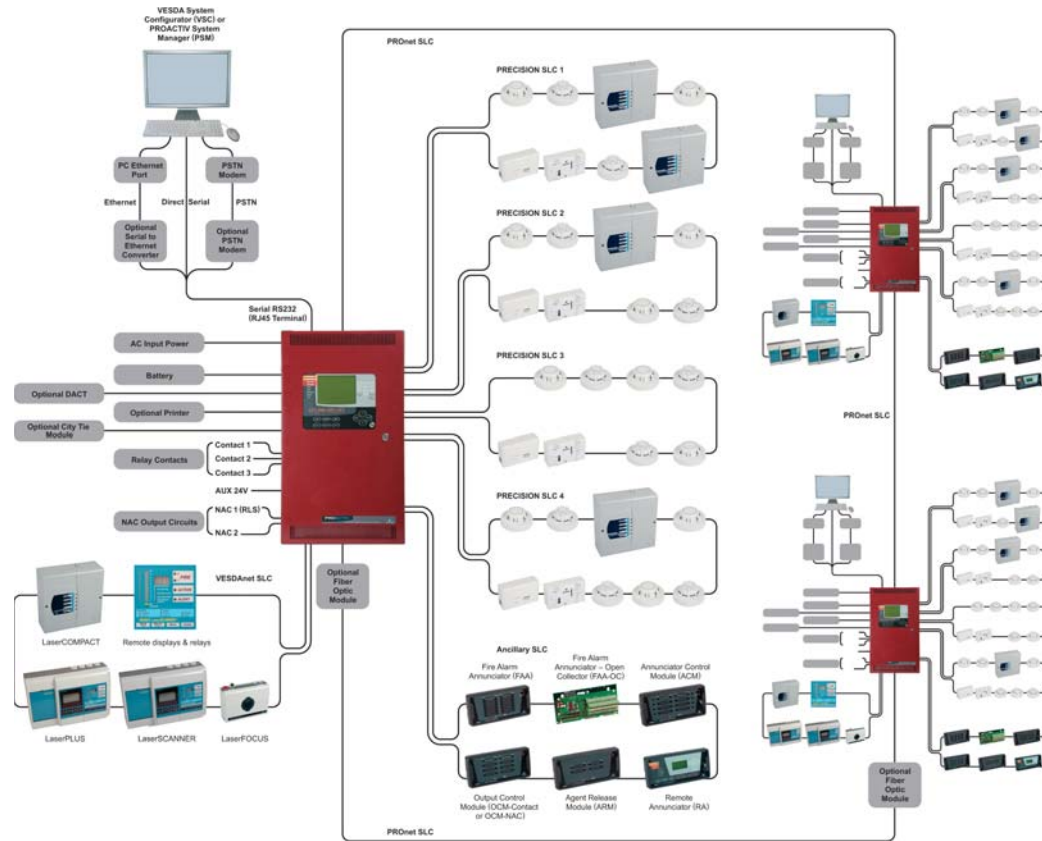
- Power and other utility sites
- Warehousing and logistics
- Telecommunications
- High-tech manufacturing (for example, semiconductor fabrication)
- Public buildings, transport facilities and shopping centers.



## Multi-mode Detection

The PROACTIV FACP supports VESDA aspirating smoke detectors and the PRECISION range of intelligent point detectors. The ability to mix both VESDA and PRECISION detectors provides a flexible fire management solution for a wide range of applications.

The industry-leading VESDA air sampling smoke detectors are the most reliable Very Early Warning detectors suitable for the



broadest range of critical applications. The PROACTIV FACP supports the following air sampling smoke detectors:

- VESDA LaserPLUS
- VESDA LaserSCANNER
- VESDA LaserCOMPACT
- PRECISION LaserCOMPACT
- VESDA LaserFOCUS.

PRECISION intelligent point detectors and modules provide a broad range of economical early warning detection and I/O devices for traditional applications. The PRECISION range of intelligent point detectors includes:

- photoelectric smoke
- ionization smoke
- heat
- multi-sensor (combining photoelectric smoke and heat detection).

Each PRECISION point detector has five operating modes. Operating modes allow for various combinations of sensitivity and confirmation delay. The point detectors also incorporate drift compensation, transient rejection, and remote testing.

## Input/Output Devices

The Ancillary and PRECISION SLCs of the PROACTIV FACP support a range of addressable input/output devices, which serve as the interface between the FACP and analog circuits, as well as various building functions. These devices include:

Device (and SLC)	Description
Output Control Module – NAC (Ancillary)	Provides either 4 or 8 output circuits, each of which can be configured to control the operation of notification appliances (e.g. horns, strobes) or audio speaker circuits (e.g. voice evacuation unit).
Output Control Module – Contact (Ancillary)	Provides either 4 or 8 resistance-free contact outputs, each of which can be used to control different building functions such as door handles, elevators, dampers, etc.
Agent Release Module (Ancillary)	Provides either 2 or 4 special application monitored outputs, each of which can be used to safely release suppression systems on a pre-configured series of events.
Switch monitor modules (PRECISION)	Provide a switch input to monitor one or more dry contact initiating devices, typically used to monitor building functions such as position of dampers.
Sounder Control Module (PRECISION)	Provides an output circuit that can be used to control the operation of notification appliances or audio speaker circuits. Sounder Control Modules can be logically combined to provide synchronized outputs on an SLC.
Input / Output Module (PRECISION)	Includes one opto-input, one switch input, and one resistance-free contact output

## Annunciation and Control

The PROACTIV System provides remote users with the ability to monitor and control the system using the following Ancillary SLC devices:

- Remote LCD Annunciator Module (RA) displays system status and provides event management and control.
- Fire Alarm Annunciator Module (FAA) displays the status of up to 16 PROACTIV system or user zones.
- Fire Alarm Annunciator Module – Open Collector (FAA–OC) is typically used to drive zone indicators (LEDs) located on a building floor plan mimic panel.
- Annunciator and Control Module (ACM) displays the status of up to 8 PROACTIV system or user zones, or allows for the remote activation of a system or zone function.

## Networking

The PROACTIV FACP supports:

- 1 VESDAnet SLC
- 4 PRECISION SLCs, with each loop supporting 251 devices\*
- 1 Ancillary SLC supporting a maximum of 31 devices

The PROACTIV FACP supports the most common types of field wiring, including Style 4, 6 and 7. T-taps are supported in Style 4 providing installation flexibility increasing the speed of installation.

The PROACTIV FACP can be organized into groups allowing cooperative and synchronized behavior between FACP's. Standard Groups allow synchronized reporting of status events and co-ordinated response to commands. An FACP configured as the Master Group can be used for Central Monitoring installations and provides system wide reporting of status events and control of all other FACP's configured in the system. The FACP's are linked together using PRONet which provides style 4 networking using either RS485 or optional fibre using the Fibre Optic modules.

The PROACTIV FACP supports DACT and City Tie modules for municipal and remote monitoring station notification.

The PROACTIV FACP supports remote monitoring via a modem or direct serial connection.

## Configuration and Monitoring

The PROACTIV FACP is easily configured using the VSC PC software. VSC allows you to create an off-line configuration and later connect and configure the system when service/installation staff are back on-site. VSC will identify changes made between visits, create audit reports or revert to previously saved configurations. VSC will also allow you to display and save individual detector event logs.

PSM is the software tool specifically designed for online system monitoring and status reporting of your PROACTIV fire management system. PSM presents the status of the PROACTIV system on customizable, nested floor plans, which allows you to quickly assess and respond to system events.

A single PSM installation can be scaled to monitor multiple FACP's and multiple networks of FACP's remotely.

## Power Supply

The PROACTIV FACP uses a fully supervised regulated 6.15 Amp power supply that furnishes system operating and signaling power. It is equipped with a battery charger to maintain the secondary power source. The battery charger can maintain batteries of up to 65 AH capacity (2 x 12 VDC, 12 AH SLA batteries can be mounted within the cabinet enclosure).

## User Interface

The PROACTIV FACP user interface allows an operator to quickly determine the status of the system through dedicated LEDs indicating Alert, Action, Fire Alarm 1 and 2, Supervisory, Trouble and System Power conditions.

The user interface provides all the necessary buttons and visual indicators to maintain and monitor the PROACTIV System. It combines a high contrast, backlit LCD display with an intuitive keypad design to simplify programming and allow rapid response to alarms. The Acknowledge, Reset, Drill and Silence buttons are easily accessible to fire service personnel.

The PROACTIV FACP features key-switch access control and multiple levels of password protection to guard against unauthorized access to the system.

The User Interface supports multiple languages.

\* Allows up to 251 PRECISION LaserCOMPACT (VLC-828) detectors, or up to 125 PRECISION point detectors and modules with the remaining devices being PRECISION LaserCOMPACT detectors.



# PROACTIV® Fire Alarm Control Panel

VFP-2000 Series

## Specifications

### Physical

#### Enclosure Dimensions (WHD)

14.9 in x 25.6 in x 4.3 in  
(380 mm x 650 mm x 110 mm)

#### Door Dimensions (WHD)

14.9 in x 25.6 in x 1.4 in  
(380 mm x 650 mm x 36 mm)

#### Cable Access

15 x 1½ in (29 mm) knockouts around the enclosure

#### Colors

Red and Grey

### Operating Environment

Dry Indoor

32–120°F (0–49°C)\*

20–95% RH, non-condensing  
NEMA 1

### Input Power

#### Primary power input

120 / 240 VAC 50/60 Hz  
Input current - 5 A max

#### Secondary power input (from SLA batteries)

24 VDC

#### Max Amp Hour Rating

12 AH (internal batteries)  
65 AH (external batteries)

### Total Output

**Maximum 24 VDC standby current**  
2.0 A

#### Maximum 24 VDC current capacity

6.15 A  
maximum Alarm current = 5.5 A

### Battery Charger

#### Floating charge voltage

27.6 to 28.8 VDC

#### Maximum battery charging current

3.5 A max

### Non-Programmable Power Outputs

#### Modem (Regulated 24 VDC)

Up to 100 mA

#### Modem Power Supply Unit (5 VDC or 8.75 VDC)

Up to 350 mA max

#### Printer (Regulated 24 VDC)

350 mA max

\* Unit is approved to operate as intended at 120°F (49°C). However, extended periods of system operation at high temperatures may cause premature battery failure.

† A Parallel Resistor-Diode termination is required when NAC 1 (RLS) is configured for special application (suppressant release).

### Programmable Outputs

#### NAC 1 (RLS) (Special Application 24 VDC)

2 Amp maximum current  
Power Limited  
Supervised

#### NAC 1 and NAC 2 (Regulated 24 VDC)

2 Amp maximum current  
Power Limited  
Supervised  
NFFPA Style Y or Z connections

#### AUX (Regulated 24 VDC)

0.5 Amp maximum

#### CONTACT 1, CONTACT 2, TROUBLE

Form C, NO-C-NC dry relay contacts  
Non Power Limited  
2 Amp at 30 VDC (resistive)

### City Tie Module (PSP-2007)

#### Modes of Operation

- Master Box

#### Output Current

- 20 mA standby
- 350 mA (Alarm present, for maximum of 10 seconds)

#### Supervision

- Inherent open circuit and ground fault detection

### Fiber Optic Module (PSP-2016)

#### Fiber Optic Interface

2 x ST (Duplex)

#### Supported cable and maximum distance

6600 ft (2 km) for 62.5/125 µm cable  
6600 ft (2 km) for 100/140 µm cable

### Battery Box (PSP-2036)

#### Enclosure Dimensions (WHD)

18.5 in x 9.0 in x 7.5 in  
(470 mm x 229 mm x 191 mm)

#### Door Dimensions (WHD)

19.5 in x 10.0 in x 1.4 in  
(495 mm x 254 mm x 36 mm)

#### Cable Access

9 x 1½ in (29 mm) knockouts around the enclosure

#### Colors

Red and Grey

#### Rating

NEMA 1

## Ordering Information

### FACP Components

Description	Model
PROACTIV Fire Alarm Control Panel, 120 volt <sup>1</sup>	VFP-2000
PROACTIV Fire Alarm Control Panel, 240 volt <sup>1</sup>	VFP-2020
PRECISION Loop Module (PLM)	PSP-2008
PROACTIV DACT Module	PSP-2030
PROACTIV City Tie Module (CTM)	PSP-2007
PROACTIV Fibre Optic Module (FOM)	PSP-2016
PROACTIV External Battery Enclosure	PSP-2036

<sup>1</sup> The PROACTIV FACP supports two PLMs (PSP-2008) and includes one PLM as standard.

### PROACTIV Ancillary Devices

Description	Model
Remote Annunciator (RA)	VFA-213
Fire Alarm Annunciator (FAA)	VFA-201
Fire Alarm Annunciator – Open Collector (FAA-OC)	VFA-205
Annunciator & Control Module (ACM)	VFA-203
Output Control Module - NAC (OCM-NAC) <sup>1</sup>	VFA-209
OCM-NAC Expansion Kit	PSP-2010
Output Control Module – Contact (OCM-Contact) <sup>2</sup>	VFA-211
OCM-Contact Expansion Kit	PSP-2012
Agent Release Module (ARM) <sup>3</sup>	VFA-207
ARM Expansion Kit	PSP-2014

<sup>1</sup> The OCM-NAC supports two expansion kits (PSP-2010) and includes one expansion kit as standard.

<sup>2</sup> The OCM-Contact supports two expansion kits (PSP-2012) and includes one expansion kit as standard.

<sup>3</sup> The ARM supports two expansion kits (PSP-2014) and includes one expansion kit as standard.

### PRECISION Devices

Description	Model
PRECISION LaserCOMPACT Detector	VLC-828
Photoelectric Smoke Detector	VFD-100
Ionization Smoke Detector	VFD-200
Heat Detector	VFD-300
Multi-sensor Detector	VFD-400
4-inch Mounting Base	VFD-000
4-inch Relay Base	VFD-003
4-inch 20D Isolator Base	VFD-004
6-inch E-Z Fit Mounting Base	VFD-005
6-inch Trim Ring	VFD-002
Remote Indicator	VFD-603
Switch Monitor Module	VFD-501
Priority Switch Monitor Module	VFD-502
Mini Switch Monitor Module	VFD-506
Priority Mini Switch Monitor Module	VFD-505
Sounder Control Module	VFD-504
Input Output Monitor Module	VFD-503
Short Circuit Isolator	VFD-500
Short Circuit Isolator Base	VFD-001
Spare Addressing Cards	PSP-2039

**Note 1:** Not all of the above products are available in all regions.

**Note 2:** The range of VESDA products is not included in the above list. Consult your local distributor or Xtralis office for more information.

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Doc. no. 10808\_04

Part: 29141

