

## Fire extinguishing control panel PX2 SERIES AE/SA-PX2, AE/94-PX2, AE/PX2



### Description

Extinguishing control panels designed and approved EN12094-1:2006.  
Easy and intuitive operation.



- Two monitored areas with dual conventional detection and three different operating modes:
  - Crossed detection:
  - Dual detection in one of the loops.
  - Mixed detection through crossed detection or dual detection in either of the two loops.
- Release pushbutton monitored loop.
- Release pushbutton on the panel front, with protective cover and indicator lamp.
- Hold pushbutton monitored loop.
- Hold pushbutton on the panel front, with protective cover and indicator lamp.
- Monitored circuit for flow detector.
- Monitored circuit for weight control or pressure switch.
- Monitored evacuation zone.
- Monitored extinguishing zone with programmable delay time.
- Programmable flood control timer.
- Output for extinguishing released board, monitored.
- Control of reset hold time after release has taken place.
- Power supply unit and battery charger, with mains voltage control, batteries, feed, battery charging and auxiliary output.
- Possibility of connection in 2- and 3-wire algorithmic systems of Aguilera Electrónica.
- Selection of automatic, manual and disabled operating mode, and access level by means of safety key.
- Internal and external indicator lamps, as well as an alphanumeric display for presentation of release time and menu functions.
- Programmed values stored in EEPROM memory.

### Technical Characteristics:

#### Energy Efficiency:

Classification: Class A

Temperature range: 0 ° C to +40 ° C

#### Size:

Width: 320 mm

Height: 273 mm

Depth: 123 mm

Colour: RAL9002

Material: AP 011 rolled sheet

Weight: 9 kg with batteries

#### Power supply:

Power supply voltage: 100~ 250Vac / 40~60Hz.

Recommended cable: H05 VV-F 3 X 1.5mm<sup>2</sup>

Switched supply adjustment voltage: 28.0 Vdc

Working voltage: 27.2 Vdc

Power supply voltage failure: < 21.5 Vdc > 29.5 Vdc

Automatic disconnection: < 17.0 Vdc

Maximum supply current: 2 A.

#### Batteries:

2 rechargeable sealed lead-acid 12V / 7Ah batteries.

Charge voltage: 2.275 V per cell, 27.3 V in total

Discharged battery alert voltage: < 21.0 Vdc

Deep discharge battery voltage: < 16.0 Vdc

Battery state test every 10 s

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### Fuses:

Mains: 2 A fuse.

Batteries: 3 A fuse.

Power supply: 2 A fuse.

Detection loops: PTC, current limit at 100mA.

Evacuation: PTC, current limit at 500mA

Extinguishing: PTC, current limit at 1.1A

Extinguishing board released: PTC, current limit 500mA

Auxiliary supply output: PTC, current limit 500mA

### Access levels:

Level 1: Functions accessible from front keypad

Level 2: Functions accessible from front keypad, with operating mode key in manual position.

Level 3: Functions accessible from CPU motherboard.

### Operating controls:

Operating mode selection: 3-way key. Automatic, Manual and Disabled.

Keys on front:

- Silence buzzer
- Reset
- Test

Internal keys: Accessible from access level 3

- Programming
- Reset

### Release pushbutton:

Local release pushbutton: Located on front, with protective cover and indicator lamp.

Remote release pushbutton: Loop monitored by current, with E.O.L of 2K7 and load resistance of 1K

### Hold pushbutton:

Local hold pushbutton: Located on front, with protective cover and indicator lamp.

Remote hold pushbutton: Loop monitored by current, with E.O.L of 2K7 and load resistance of 1K

### Light-emitting indicators:

General:

- Power supply
- ON
- Released
- General Fault

- Power supply fault

- System failure

Individual:

- Detection zone 1, alarm and fault

- Detection zone 2, alarm and fault

- Release Pushbutton

- Flow Detector

- Evacuation, alarm and fault

- Extinguishing, alarm and fault

- Hold pushbutton

For operating mode:

- Manual Mode.

- Disabled Mode

Display:

- 2-digit alphanumeric 7 segments display.

Internal individual visible from access level 3:

- Ground Fault

- Flow Detector Fault

- Weight Control or Pressure Switch

- Hold Pushbutton Fault

- Release Pushbutton Fault

- Fault in Extinguishing Release Board

- Auxiliary supply output fault

- Power supply voltage fault

- Battery fault

- Mains failure

### Buzzer:

Type of buzzer: Piezoelectric.

Continuously activated in alarm, and intermittent in fault.

### Automatic detection zones:

Number of detection zones: 2

Operating mode selection: Via programming menu.

Detectors max. current: 20 mA

End-of-line resistance: 2K7 1/2W

### Flow detector:

Loop monitored by current, with E.O.L of 2K7 and load resistance of 1K

State confirmation time: 1s

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### Weight Control or Pressure Switch:

Loop monitored by current, with E.O.L of 2K7 and load resistance of 1K

State confirmation time: 1s

### Sounder:

Monitored 24V output, with E.O.L of 2K7 1/2W. / 500 mA

### Extinguishing board released:

Monitored 24V output / 500 mA

### Extinguishant:

24V output monitored by diode with solenoid valve 1A

Delay time: Configurable in programming menu from 1 to 60 seconds.

### Auxiliary supply output:

Monitored 24V output / 500 mA

### 4 Relay outputs (optional) AE/PX2R motherboard :

Relay alert or pre-released: NO, C and NC contacts

Relay in released state: NO, C and NC contacts

Relay in fault state: NO, C and NC contacts Actuated in idle.

Manual state relay: NO, C and NC contacts

### Incorporation in Algorithmic System:

**AE/PX2**

**AE/SA-PX2:** 2-Wire Algorithmic System

**AE/94-PX2:** 3-Wire Algorithmic System