



## SM-2P instructions

### 1.0. DESCRIPTION

The **SM-2P** is a wireless optical smoke detector which function with all control panels that use the self-learning "PEGASO" wireless system. Due to its efficient sensing system and microprocessor technology, this sensor is capable of detection particles in the air which appear before combustion takes place.

Each **SM-2P** has its own personalized code that when transmitted will be learned by the control panel.

Additional characteristics:

- High degree of immunity against RF interference
- Low current drain
- Low battery signal.

### 2.0. INSTALLATION

#### 2.1. POSITIONING

The **SM-2P** smoke detector should be installed in those environments where fire hazards are greatest.

It should be position on a horizontal surface at a distance of not less than 50 cm from any vertical object (see Fig. 1).

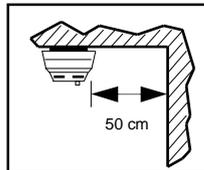


Fig. 1

#### 2.2. FIXING - BATTERY EFFICIENCY

To fix the **SM-2P** into position proceed as follows:

- 1) Remove the base from the detector by rotating it counter clockwise (see Fig. 2).
- 2) Utilizing the screws provided fix the base (see Fig. 3).
- 3) After having connected the battery clip, insert the battery into the appropriate housing located on the base of the unit (see Fig. 4).
- 4) To verify the efficiency of the battery, press the button (that acts as a lens for the LED) which is situated on the top of the unit. This will cause the LED to flash and the buzzer to sound intermittently. If the sound is of low intensity, replace the battery.
- 5) Fix the **SM-2P** unit to the base by rotating it clockwise until it snaps into position.

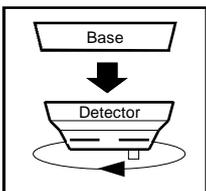


Fig. 2

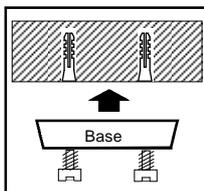


Fig. 3

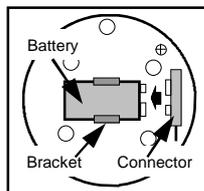


Fig. 4

### 3.0. SELF-LEARNING OF CODE

Each **SM-2P** manufactured will have a different code up to a maximum of 4 billion.

To have the control units of the series "PEGASO" learn the code of a sensor, you must follow the installation instructions of the panel being installed.

When the control panel is ready to learn the **SM-2P** code, press the button located on the front of the sensor (see Fig. 5).

This will trigger an RF transmission and the control panel will confirm with a beep.

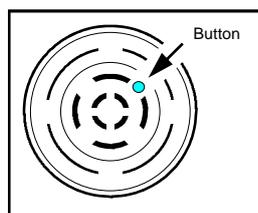


Fig. 5

### 4.0. FUNCTIONING MODE

In stand by mode the **SM-2P** LED will flash every 60 seconds. This indicates that the sensor is active and in operation.

In case of smoke detection, the **SM-2P** LED will start flashing at a rapid rate (pre-alarm time).

After 10 seconds of pre-alarm, the **SM-2P** will transmit a 2 second coded signal to the control panel and a continuous intermittent beep will be produced by the internal sounder.

The optical and acoustic signals will stop only when the optical chamber inside the **SM-2P** is clear of the smoke particles that have triggered the alarm.

The **SM-2P** returns to the stand-by status and is now ready for a new alarm.

### 5.0. LOW BATTERY SIGNAL

The **SM-2P** is supplied with a 9 V alkaline battery incorporated.

When the **SM-2P** battery goes below 6 V, the unit will emit a beep every 60 seconds.

#### 5.1. BATTERY REPLACEMENT

To replace the battery, separate the detector from the base.

Inside the detector, unclip the battery and replace it with a new heavy duty long life alkaline battery.

Return the detector to its original position.

### 6.0. MAINTENANCE

To keep the **SM-2P** functioning correctly, it is advisable to free it from any build up of dust at least twice a year.

This can be easily accomplished by using a vacuum cleaner.

### 7.0. TECHNICAL CHARACTERISTICS

- Power: 9 V - 500 mA alkaline battery (incorporated)
- Battery life (fully charged): approximately 1 year
- Current drain in stand-by: 6 micro A
- Current drain in alarm (buzzer): 8 mA
- Current drain in transmission: 12 mA
- Detection: via optical chamber
- Buzzer output power: 75 dB
- Alarm signal: optical and acoustic
- Low battery signalling
- Minimum transmission range guarantee: 20 metres
- Transmission frequency: 433.92 MHz
- SMD technology
- Dimensions: Ø 105 x 62 mm
- Weight: 150 g

