

# PS-815 Standalone Photoelectric Smoke Detector

## Operation Theory

Once battery is conducted, detector will start normal operation after 25 seconds internal charge. When smoke density exceed preset standard during pre-fire period, the refraction phenomenon will caused by scattering light between receiver and transmitter inside the smoke chamber. Then alarm is activated. The buzzer and lamp are triggered, which are pre-fire warning.



## Features

- ◆ Easy installation - Install directly to proper location without any wiring.
- ◆ Longer battery life - Minimum one year under standby operation.
- ◆ With metal net to prevent insects causing false alarm
- ◆ Using microprocessor and SMT technology, low profile design, low power consumption, high precision and stability.
- ◆ Low battery warning- Beeps every 20 seconds for at least 7 days to indicate low voltage of battery. Also, it extends the beeping period for 4 minutes after alarm activation.
- ◆ Simple test method- Pressing test button for 2 seconds and it will beep to confirm the unit is under normal condition.

## Specification

Model	PS-815
Sensor Type	Photoelectric smoke chamber
Processor	Microchip controller
Sensitivity	Conform to UL 217, 4% per foot, EN54, CNS
Alarm	Within 30 second for 7.5%
Buzzer	Sounded during alarm, 85dB at 3 meter
LED Indication Lamp	Flashes once every 40 seconds under normal condition, flashes and beeps under alarm condition, flashes every 20 seconds and beeps when battery abnormal
Reset after alarm	Auto reset
Supply Voltage	9V battery (built-in)
Battery Protection	Cover can not be fixed if battery not installed
Standby Current	12μA
Alarm Current	8mA
Warm Up Time(max)	25 seconds
Covering Area	150 square meter for mounting height below 4m, 75 square meter for mounting height 4-20m
Mounting	Ceiling or wall mounted
Operating Temperature	-10 to 55°C
Casing	White fire resistance PC
Standard	CE
Dimension	Φ120 x 37mm with detach-able fixing base
Net Weight/Shipping Weight	200g/217g