

# Adaptive Design Smoke Sensor



Adaptive Design Smoke Sensor is an Optical Smoke Alarm that runs on 9V alkaline battery.

## Features

- High performance optical chamber with integrated insect screen;
- Advanced suppression and calibration technology;
- Low power cell warning;
- Kitemarked to BS EN 14604:2005;
- Automatic Self-Test.

## Communication

- Compliant with FCC and ETSI EN 300 220-1 V2.2.1 (2008-04) regarding power, modulation and duty cycle;
- Frequency: 433.92MHz (ISM band License free), Modulation: FSK, Bitrate: 2400 bps, Bandwidth: 67 KHz;
- Max Transmit Power: 6 dBm, Receiver sensitivity: 109 dBm, Transmit duty cycle 1/600;
- Usable radio range: 60m outdoor line of sight, 30m indoor (under ideal conditions)
- 868MHz and 915MHz bands are also supported.

## Operating Parameters

Parameter	Description	Notes
Power	9V alkaline battery	Powers the sensor for 12 months
Low battery beep warning	Every minute for 30 days	
Alarm	Electronic Piezoelectric horn	
Built in sounder	Output 85dBA at 3 m	Frequency 2200/2800Hz
Manual test button	Simulate effect of smoke, electronics and horn	0.1%
Ambient temperature	0°C to 40°C, 0-90% RH humidity	0.1%
Sensitivity	Complies with BS 5446 Part 1: 2000	
Approvals	Kitemarked to BS EN 14604:2005, CE approved	
Automatic Self-Test	Smoke Chamber is tested every 40 Sec. and unit beeps (without LED flash) if it is degraded.	
Plastic material	UL94HB flame retardant	