

BATTERY POWERED SMOKE DETECTOR (ECO)

Model No.: BT-SD703

Product Overview:

The BT-SD703 is a standalone, battery-operated photoelectric smoke detector designed for reliable fire detection without the need for external wiring or control panels. Its eco-friendly low-power design, combined with a long-life battery, makes it ideal for residential and small commercial applications. The detector provides loud audible alerts, visual LED indications, and easy installation—offering a complete safety solution in areas where a conventional fire alarm system is not required.

Special Features:

- As per IS -2189 Standard.
- Standalone photoelectric smoke detection
- Long-life battery power (no wiring required)
- Loud built-in alarm buzzer (≥ 85 dB @ 3m)
- Low battery warning indication
- Test button for regular functional checks
- Auto-reset after alarm condition
- Easy installation with twist-lock base
- Compatible with all conventional fire alarm panels
- High immunity to dust, insects, humidity & RF interference
- Modular, maintenance-friendly construction

Technical Specifications:

Operating Conditions:

- **Operating Temperature:** 0°C to 55°C
- **Storage Temperature:** -10°C to 60°C
- **Relative Humidity:** 0–95% RH (non-condensing)

Electrical Specifications:

- **Power Source:** 9V battery (Alkaline/Carbon)
- **Standby Current:** ≤ 10 μ A (ultra-low power)
- **Alarm Current:** ≤ 30 mA
- **Alarm Sound Level:** ≥ 85 dB @ 3 meters
- **Alarm Indication:** Flashing red LED + audible buzzer
- **Low Battery Warning:** Chirp sound with LED flash
- **Test Function:** Manual test button

Detection Specifications:

- **Smoke Sensitivity:** 2.1%/ft $\pm$ 0.5% (photoelectric)
- **Alarm Type:** Smoke detection alarm
- **Reset Method:** Auto-reset after smoke clearance



Mechanical Specifications:

- **Dimensions:** Ø100 mm × 50 mm (including base)
- **Weight:** Approx. 0.150 Kg (without Packaging)
- **Material:** ABS fire-retardant housing
- **Color:** White
- **Mounting Base:** 2-wire / 4-wire compatible
- **IP Rating:** Ip30

Wiring Diagram:

