

GAS DETECTOR (220VAC)

Model No.: BT-GD705

Product Overview:

The BT-GD705 is a high-sensitivity gas detector designed to detect combustible or toxic gases in residential and commercial environments. Powered directly from 220VAC, it features advanced sensing technology that ensures rapid and accurate detection of gas leaks such as LPG, LNG, Methane, or other flammable gases. The detector provides both audible and visual alarms and includes relay output for actuator or alarm panel integration. Its compact and durable design makes it suitable for kitchens, boiler rooms, gas storage areas, and similar spaces.

Special Features:

- As per IS -2189 Standard.
- Direct 220VAC power operation (no external power supply required)
- High-sensitivity gas sensing technology
- Fast response to gas leakage
- Loud in-built alarm buzzer (≥ 85 dB @ 3m)
- Visual LED indicators (Power / Fault / Alarm)
- Relay output for external alarm or solenoid valve
- Auto-reset after gas level returns to normal
- Over-voltage & surge protection
- Easy wall mounting design
- Long-life, low-maintenance sensor

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)
- **Warm-up Time:** Approx. 3 minutes

Electrical Specifications:

- **Power Supply:** 220–240VAC, 50/60Hz
- **Power Consumption:** ≤ 3 W
- **Alarm Sound Level:** ≥ 85 dB @ 3 meters
- **Alarm Indicator:** Red LED + buzzer
- **Fault Indicator:** Yellow LED
- **Normal/Power Indicator:** Green LED
- **Relay Output:** NO/NC contacts
- **Relay Contact Rating:** 1A @ 30VDC or 0.5A @ 125VAC

Detection Specifications:

- **Target Gases:** LPG / LNG / Methane / Natural Gas
- **Sensor Type:** Semiconductor gas sensor
- **Alarm Concentration:** 10% LEL (typical)
- **Response Time:** ≤ 10 seconds
- **Recovery Time:** ≤ 30 seconds



Mechanical Specifications:

- **Dimensions:** 120 mm × 75 mm × 40 mm
- **Weight:** Approx. 0.250 Kg (without Packaging)
- **Material:** Flame-retardant ABS housing
- **Color:** White
- **Mounting:** Wall-mount type
- **Cable Entry:** Rear/side entry
- **IP Rating:** Ip30

Wiring Diagram:

