

GAS DETECTOR (12/24VDC)

Model No.: BT-GD706

Product Overview:

The BT-GD706 is a high-performance, low-voltage gas detector designed to detect combustible gases such as LPG, LNG, Methane, and Natural Gas. Operating on 12/24V DC, it is ideal for integration with fire alarm panels, security systems, and building automation systems. The detector provides reliable gas leakage detection with both audible/visual alarms and relay output for external devices. Its compact and durable design makes it suitable for residential, commercial, and industrial environments.

Special Features:

- As per IS -2189 Standard.
- Operates on 12V or 24V DC (wide voltage range)
- High-sensitivity semiconductor gas sensor
- Fast response & stable detection performance
- Loud built-in alarm buzzer (≥ 85 dB @ 3m)
- LED indicators for Power / Fault / Alarm status
- Relay output for solenoid valve, alarm panel, or exhaust fan
- Auto-reset when gas concentration returns to normal
- Easy wall-mount design
- Suitable for integration with fire alarm panels
- Modular, maintenance-friendly construction

Technical Specifications:

Operating Conditions:

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

Electrical Specifications:

- **Operating Voltage:** 12V / 24V DC
- **Operating Current:** ≤ 150 mA
- **Alarm Sound Level:** ≥ 85 dB @ 3 meters
- **Alarm Indicator:** Red LED + buzzer
- **Fault Indicator:** Yellow LED
- **Power Indicator:** Green LED
- **Relay Output:** NO/NC contacts
- **Relay Contact Rating:** 1A @ 30VDC

Detection Specifications:

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



Mechanical Specifications:

- **Dimensions:** Ø100 mm × 50 mm (including base)
- **Weight:** Approx. 0.100 Kg (without Packaging)
- **Material:** ABS fire-retardant housing
- **Color:** White
- **Mounting Base:** 2-wire / 4-wire compatible
- **IP Rating:** Ip30

Wiring Diagram:

