

**AT-FG04****1. Product Overview**

The branch-line gas alarm controller is a wall-mounted industrial controller designed to work with combustible/toxic gas detectors. It enables real-time monitoring, data display, alarm output, and relay control, forming a complete gas detection system.

2. Key Feature

- Multi-channel support (1–4 detectors)
- Dual-level alarm thresholds per channel
- Sound & light alarms (≥ 80 dB)
- Relay outputs for fans, valves, or other linked devices
- Continuous 24/7 operation
- Clear digital tube display & intuitive button contro

3. Technical Parameters

Parameter	Specification
Detection Target	Flammable / Toxic Gas
Detection Range	0–100% LEL (Combustible Gas) 0–N μ mol/mol 0–N% Vol (Sensor-dependent)
Basic Error	< \pm 5% FS
Display	Digital Tube
Alarm Mode	Sound & Light Alarms
Alarm Output	Two-stage Relay Output (Normally Open/Closed)
Contact Capacity	5A / 250V AC
Power Supply	AC 220V, 50 Hz
Operating Temp.	-20°C to 50°C
Operating Humidity	\leq 95% RH
Installation	Wall-mounted, 165 mm spacing, Φ 6 mm aperture

4. Installation Overview

Wiring: Use shielded twisted pair (RS485) or RVVP 3 \times 1.5 cable (4–20 mA).

Location: Install in a safe area, free from explosive gases.

Linkage Devices: Supports fans and solenoid valves (\leq 5A). Use pulse mode for emergency shut-off valves.

5. Maintenance & Warning

Use a dedicated power supply.

Do not disassemble or expose to water/oil/corrosive gases.

Only trained personnel should operate the unit or modify settings.

Contact manufacturer for configuration support.

6. Common Faults & Solutions

Fault Phenomenon	Possible Cause	Solution
Communication Failure	Loose cable between boards or detector	Check and secure connections
Power Failure	No display	Verify power supply and connection

7. Warranty & Servic

Warranty Period: 1 year from purchase date

Lifelong Maintenance: Paid service offered after warranty

Exclusions: Damage from misuse or unauthorized modification