

21170 - LRRIJ AC IP62 Repeater with LPG Gas Sensor and Relay (5A)

Revision: 01 | Creation Date: 2026-06-05 | Revision Date: 2026-08-11



Model: 21170 | LRRIJ



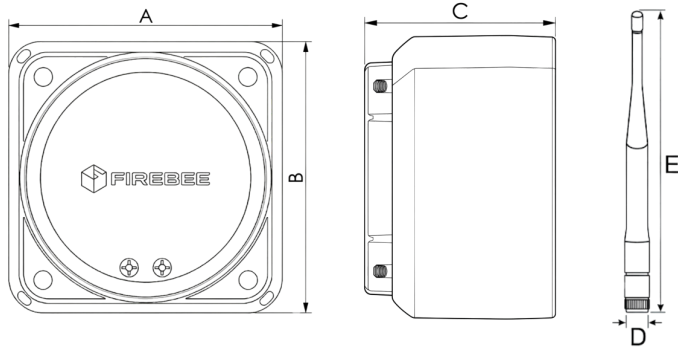
Application

The Module with Gas Sensor detects LPG or natural gas leaks and activates relay outputs upon receiving an alarm from the control panel or detecting gas. It has two configurable relays: one for cutting off the gas supply (RELAY 2) and another for activation by the control panel in an alarm situation (RELAY 1). It also functions as a repeater, retransmitting signals between field devices and the control panel. Suitable for gas-risk environments (IP62).

Operation

Upon receiving an alarm signal from the control panel or detecting an LPG or natural gas leak, the device immediately activates its relay outputs.

Dimensions



A	B	C	D	E
4.7 in	4.7 in	3.0 in	0.5 in	7.7 in

Standard Features

- Wireless protocol — 2.4 GHz, ISM band (Industrial, Scientific and Medical).
- AC power supply (100/240 VAC) with internal Li-Ion backup battery.
- IP66 ingress protection — suitable for indoor and outdoor installation.
- 128-bit AES encryption; restricted to enrolled installation unit.
- Communication range: up to 120 m indoor and up to 1,500 m outdoor (line of sight).
- Tamper detection: removal alert at control panel within 2 seconds.
- Low-battery alert and level indication at the control panel.
- Equipment fault indication at the Fire Detection and Alarm Panel within 5 minutes.
- Internal battery estimated lifespan of 24 months as specified by the manufacturer; after this period, capacity may decrease — preventive inspection is recommended.

Product Certifications:



Specifications

ENVIRONMENTAL CHARACTERISTICS	
Ingress Protection	IP62
Operating temperature	-10 to 55 °C
Storage temperature	0 to 40 °C
Relative humidity	10% to 95%
ELECTRICAL CHARACTERISTICS	
Power supply	100/240 VAC (dual-voltage), 8.60 W
Normal operation current	≤ 60 mA
Triggering current	≤ 80 mA
BATTERY	
Type	Li-Ion 3.7 V, 2,200 mAh
Charging time	≤ 12 hours
Battery autonomy	≥ 24 h (relays off)

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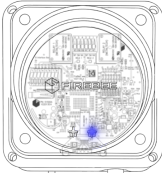
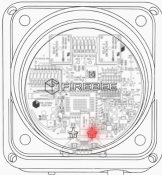
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Specifications

DIMENSIONS	
Body (A × B × C)	4.7 × 4.7 × 3.0 in
Antenna (E × D × D)	7.7 × 0.5 × 0.5 in
Weight	560 g
RADIO FREQUENCY — 802.15.4	
Operating channels	11 to 26 (default 26)
Network encryption	AES 128-bit
Data transfer rate	256 kbps
Modulation	O-QPSK
Antenna gain	5 dBi
TX power	≤ 20 dBm
Sensitivity	-102 dBm
Antenna type	External
Indoor range	120 m
Outdoor range (line of sight)	1,500 m
Standard	802.15.4

LED Indicators

LED	State	Description
	Green Operational	Green LED flashing — device operational.
	Blue Signal Strength	Flashing: low signal strength; solid: high signal strength.
	Red Alarm	Red LED solid — alarm active; siren and visual signaling activated when equipped.
	Yellow Fault	Yellow LED solid — active fault (e.g., sensor removed); communication maintained with the control panel.