

GAZOMAT Handheld Remote Methane Leak Detector



GAZOMAT Products

Gazomat offers high-performance equipment with advanced detection technology for use in harsh conditions



11/6/2017

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Product Introduction

- Utilizes laser for remote methane leak detection
- **Ultralight** and highly sensitive
- **Selective** to Methane
 - No false alarms in the presence of other hydrocarbons
- Emits laser at **1654nm**
 - Laser can travel through glass
- Can detect up to **50m** away



Product Introduction



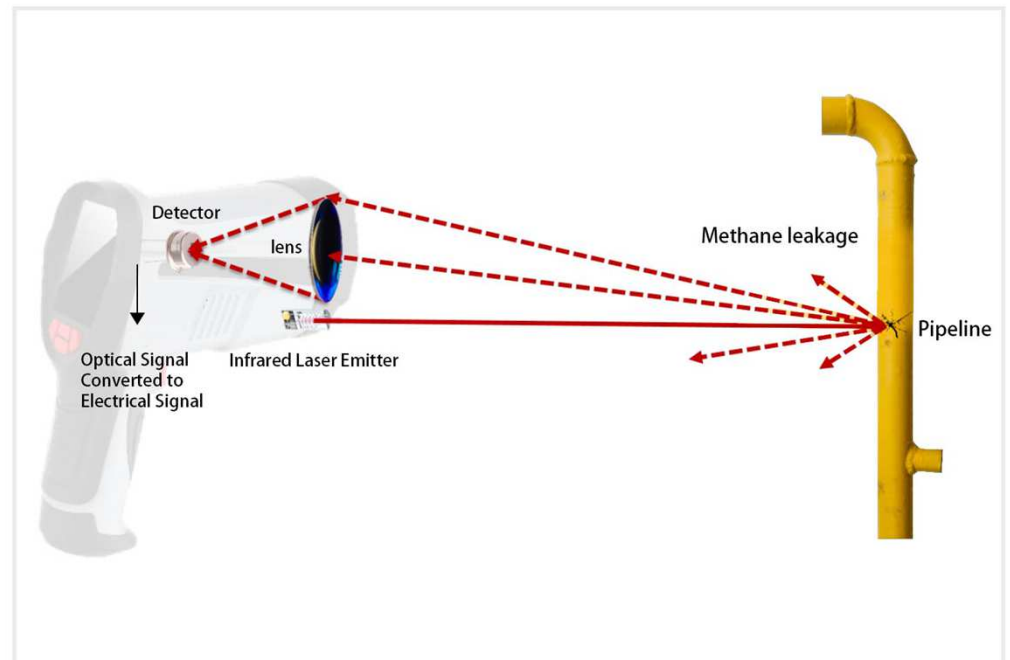
How it works:

- Laser beam is partially absorbed by gas
- It is then reflected by furniture and walls, all the way back into the sensor.
- The reflected laser is collected and converted to an electrical signal that carries the information needed to determine the relative methane concentration.



Working Principle

- Laser beam travels towards the target
- Is then reflected back into the receiver
- The device detects gas leaks by analyzing the laser beam, received back.



Product Description

Handheld Remote Methane Leak Detector



-  Power/Return Key
-  Up Key
-  Enter Key
-  Down Key



- 01/Test Key
- 02/Battery Compartment Button



- 01/Infrared Laser Emitter
- 02/Guide Light Emitter
- 03/Working Light

Device Specifications

Measurement Method	Tunable diode laser absorption spectroscopy (TDLAS)	Operating Temperature	-20°C to +50°C
Sensitivity	5ppm*m	Operating Humidity	30-90%RH, Non-condensing
Detection Range (CH4)	0-50,000ppm*3	Enclosure Level	IP54
Measurement Accuracy	±10%	Explosion Proof Classification	Exib IIA T3
Response time	0.1 s	Laser Classes	IR Laser: Classe I eye safety Green Indication Laser: Class 3R
Detection Distance	50 m	Battery	Rechargeable Lithium battery, Capacity: 5200mAh
Weight	0,7 kg	Battery Operating Life	>9 hours (at 25°C)
Size	160mm x 210mm x 80mm	Threshold Alarm	Threshold: can be set by customer Alarm: Buzz with LCD turning red
Display	2.8 inch LCD	Self-Test	Built-in self test while turning on the instrument, <10s
False alarm	None	System False Alarm	Corresponding error message while there is any hardware issue

Field tests

Advantages

01/
Highly sensitive
(5ppm*m)

02/
Quick response time
(0.1s)

03/
No false alarm



Residential Building Natural Gas Leak Inspection



Gas Container Methane Leak Inspection



Natural Gas Pipeline Gas Leak Inspection



Gas Container Methane Leak Inspection

Comparison with the competition

	Gazomat	Heath Consultants	Focused Photonics Inc.	Tokyo Gas
Sensitivity (ppm*m)	5	5-10	5	10
Weight	0.7 kg	4.0 kg	1.4 kg	0.6 kg
Detection distance	50m	30m	30m	30m
False Alarm	None	Frequent	Frequent	Frequent
Response time	0.1s	0.1s	0.1s	0.1s
User interface				
Product image				