



GAS LASER

Natural Gas Leak Detector



Using powerful laser spectroscopy technology, the **GAS LASER** is a handheld remote methane detector (RMD) offering methane selectivity. Ultra-portable and very easy to use, this device detects methane leaks on outside gas pipelines along buildings, bridges or within gas and industrial sites. Its ability to detect methane through glass also makes it an essential tool for conducting inspections, safely and efficiently.

Main features

- **330ft (~100m) distance detection**
allows use from safe distances
- Methane selective – no false alarm
- Instant response time (0.1 s)
- IECEx and ATEX certified
- Can detect through glass
- Integrated self-test at start-up

Easy to use, quick to respond

- Instant response time (0.1 s)
- Large LCD screen (2.8 inches)
- Configurable alarm threshold
- Visual and audio alarms
- Maximum reading on display until reset
- Three scanning speeds (fast, medium, slow) for easy leak detection (fast) and measurement accuracy (slow)
- **RED DOT SIGHT** for precise targeting in daylight



How it works?

When the laser beam of the **GAS LASER** reaches its target, it is partially absorbed by the methane gas plume present. The reflected laser beam is then received by the **GAS LASER** for analysis. The results are displayed immediately.

Extended applications

Suitable for applications where field technicians cannot operate close to the inspection zone; including :

- Transmission & distribution network survey
- Industrial and commercial property survey
- Gas processing and gas storage plants
- Industrial sites monitoring
- Emergency response



Gas Laser

Specifications

MEASUREMENTS

TARGET GAS	TYPE	UNITS	RANGE	SENSITIVITY	RESPONSE TIME	ACCURACY
Methane	Laser (TDLAS)	ppm*m %Vol*m %LEL*m	0-99,999 ppm*m	5 ppm*m	0.1s	+/-10% (100→50,000 ppm*m)

DETECTION

3 measuring speeds	Fast (F) = 0.1s ; Medium (M) = 0.4s ; Slow (S) = 1.6s
Detection distances	330ft (100m)
Alarms	Configurable alarm threshold with audible and visual alarms

POWER SUPPLY

Battery type	Rechargeable Lithium battery, capacity: 7.2V 2500mAh
Battery life	15 hours at 77°F (25°C) (two batteries)
Charging time	< 2 hours

ENVIRONMENTAL CONDITIONS

Operating temperature	-4°F to 113°F (-20°C to +45°C)
Operating Humidity	<80%RH, non condensing
Ingress Protection	IP54

PHYSICAL

Weight	1.68lbs (0.76kg)
Size	6.3 inches x 8.3 inches x 3.1 inches (160mm x 210mm x 80mm) without battery

CERTIFICATION RATING

IECEX	Ex ib op is IIA T3 Gb (Ta= -20°C to +45°C)
ATEX	II 2G Ex ib op is IIA T3 Gb (Ta= -20°C to +45°C)
Laser classes	Invisible laser emitter: 1651nm, <10mW Class 1 eye safety Green indication laser: 520nm, <5mW Class 3R

DATA & COMMUNICATIONS

Connection	Bluetooth communication with mobile devices
------------	---

KIT

Heavy duty carry-case containing :



We are committed to ensuring the quality and continuous improvement of our products. The information contained in this brochure is therefore subject to change without notice, only the technical data contained in the manual is binding. For more information, please contact us or our distributor.



TELEDYNE
GAS AND FLAME DETECTION
Everywhere you look™

AMERICAS
14880 Skinner Rd
Cypress, TX 77429
USA
Tel.: +1 713-559-9200

EMEA
Inchinnan Business Park
Renfrew, PA4 9RG
Scotland, UK
Tel : +44 (0)141 812 3211

ASIA PACIFIC
Room 04, 9th Floor
275 Ruiping Road
Xuhui District, Shanghai, China
TGFD_APAC@teledyne.com