

Ribble Enviro
...everything gas detection

Data Sheet

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Methane Gas Leak Detection Monitoring of Networks and Industrial Sites



GAZOSCAN™

Handheld Remote Methane Detector
with Laser Spectroscopy Technology

- Instant response time (0.1s)
- Bluetooth® communication
- Can detect through glass
- 100m (~330ft) distance detection
- Allows for use from safe distances



Using the powerful Laser Spectroscopy technology (TDLAS), the GAZOSCAN™ from GAZOMAT™ is a handheld remote methane detector (RMD) offering methane selectivity.

Ultraportable, very easy to use, the device detects leaks at 100m (≈ 330ft) distance on outside gas pipelines along buildings, bridges or within gas and industrial sites, allowing essential workers and first responders to maintain safe distances. Its capacity to detect through glass makes it an essential tool for conducting inspections within cities, safely and efficiently. Intrinsically safe, certified IECEx and ATEX, it can be used in explosive atmospheres.

How it works

- When the laser beam of the GAZOSCAN reaches its target, it is partially absorbed by the methane gas plume present. It is then reflected back into the detector for analysis. Results will show on the display screen immediately.

Easy to use, quick to respond

- Instant response time (0.1s)
- Large LCD screen (2.8 inches)
- Quick start-up (< 10s)
- Configurable alarm threshold with visual and audio alarms
- Maximum reading on display until resetting
- Three scanning speeds (Fast, Medium and Slow) for
 - Easy leak spotting (Fast)
 - Maximum measurement accuracy (Slow)
- Red dot sight for precise targeting in bright sunlight

“Connected” functionality

- Bluetooth® communication for data transmission
- Connects (optional) with GAZOSURVEY™ mobile App running on Android/iOS devices for:
 - GPS leak localization and survey traceability
 - Note entry, email, picture capture and storage

Extended applications

Suited to any situation where technicians cannot operate close to the inspection zone, the GAZOSCAN™ saves time and costs for the monitoring of:

- Hard-to-reach-areas - overhead pipelines, valves, risers, etc., service galleries of bridges, fenced-off areas...
- Properties with dogs, busy roads, toxic atmospheres,
- Explosive atmospheres - IECEx and ATEX certified

The range of application is broad:

- Natural gas/biogas transmission and distribution network survey (inspection on street, between buildings...)
- Inspection of buildings (entrances, staircases, through windows) and of residential properties
- First responders’ interventions
- Industrial and commercial property survey
- Industrial site monitoring (refineries, gas production, processing and storage plants, compression stations...)

The GAZOSCAN™ detector comes in as a full set including removable batteries (2x), charging base, power adapter, screen cap and carrying case.

A verification kit is available as an option.



GAZOSCAN™ TECHNICAL SPECIFICATIONS

Target gas :	Methane (CH ₄) and methane containing gases
Measurement principle:	Tunable diode laser absorption spectroscopy (TDLAS)
Measurement method:	Laser reflection
Sensitivity :	5 ppm*m
Detection range CH₄ :	0-99999ppm*m
Measurement accuracy:	± 10% (100-50000ppm*m)
3 measuring speeds :	Fast (F) = 0.1s; Medium (M) = 0.4s; Slow (S) = 1.6s
Measuring unit :	ppm*m by default (Options: vol%*m / %LEL*m)
Detection distance:	100m (≈ 330ft) and greater distances
Data transmission :	Bluetooth® communication with dedicated mobile App (optional)
Weight :	0.76kg (1.68 lbs) with battery
Dimensions :	160mm x 240mm x 80mm (6.3”x9.4”x3.1”) (with battery)
Operating temperature :	-20°C to +45°C (-4°F to +113°F)
Operating humidity :	< 80% RH, non-condensing
Ingress Protection :	IP54 (complies with IEC 60529)
Explosion-proof Classifi. & Certification - Zone 1	Ex ib op is IIA T3 Gb - IECEx N°: IECEx NEP 19.0019X and IIC2G Ex ib op is IIA T3 Gb - ATEX N°: Baseefa19ATEX0075X
Laser classes :	Invisible Laser emitter (CH ₄): 1651nm, <10mW, Class 1 eye safety Green indication laser: 520nm, <5mW, Class 3R
Battery :	Rechargeable Lithium battery, 7.2V, 2500mAh
Battery operating life :	15 hours at 25°C (77°F), two batteries
Charging time :	< 2 hours
Threshold alarm :	Can be set by user, buzz with LCD turning red
Self-test :	Built-in self-test at start-up < 10s
System alarm message:	In case there is a hardware issue

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