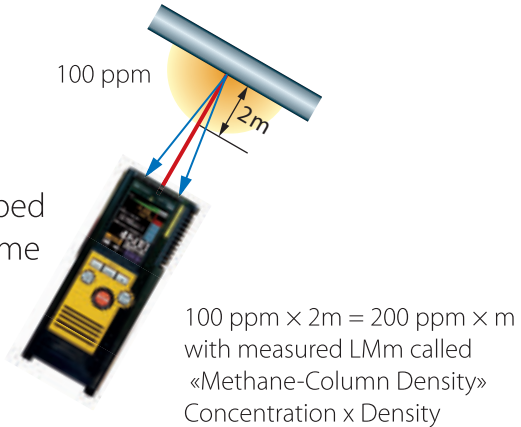


Compact and Portable Methane Gas Detector

Principle of measurement

Laser Methane is based on utilization of laser absorption spectrophotometer of methane gas for gas measurement. The system detects natural gas leaks by emitting a Laser at particular wavelengths and analyzing the light reflected back from the ground to determine how much was absorbed by the methane in the natural gas. The measured gas volume is expressed by the methane column density (ppm-m): methane density (ppm) multiplied by the thickness (m)



Difficult to reach areas

Accumulated gas clouds in commercial and industrial facilities are commonplace. The Laser Methane mini allows for detection, removing the need for ladders, scaffolding or aerial platforms.

Additional technology features

- > Can detect faster than conventional methods (Detection speed 0.1 sec)
- > Remote detection
- > Simply pointing the laser beam towards the suspected leak or along the survey line
- > Can detect methane through windows
- > Only sensitive to methane. No false reports

Typical applications include

- > Emergency response
- > Industrial and commercial property surveys
- > Gas processing plants
- > Landfill monitoring
- > Distribution pipeline surveys
- > Transmission pipeline surveys
- > Refinery surveys



*1 Minimum detectable sensitivity may depend on the reflector/reflecting object and detecting distance.

*2 Warning label

Subject to technical changes.

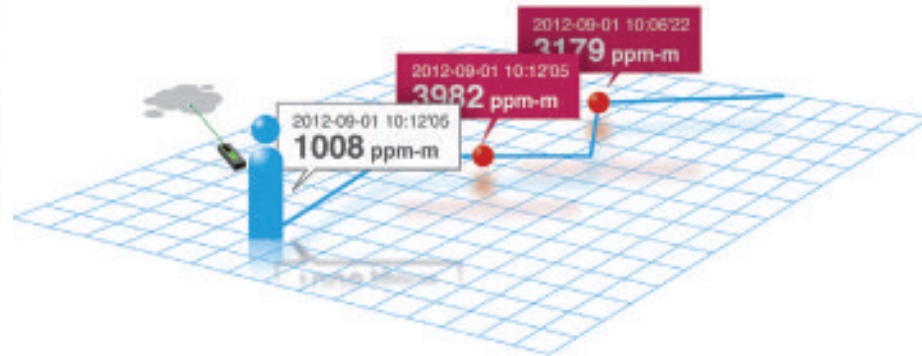
Please use this device to detect the target gases only. Gases other than the target gases cannot be detected by this device.





SA3C32A-BE


 Bluetooth®



- > Bluetooth communication
- > Realtime data display and measuring
- > GPS location tracking
- > Data storage for traceability
- > Ability to capture and store images
- > Email data transfer



General specifications

Items	Specifications
Target Gas	Methane (CH ₄) & methane-containing gases
Detection limits	1 ~ 50,000 ppm × m
Accuracy of detection	± 10 %
Detection distance	1.64 ft ~ 98.4 ft
Dimensions	2.7 (W) × 7 (D) × 1.7 (H) in
Calibration	Self calibrating with integrated reference cell
Structure	Splash & Dust Proof (IP54)
Alarm	Audible & Visual
Battery	Nickel metal hydride, rechargeable
Battery Life	Approx. 5 hours at 77 °F, display level 5
Units	ppm × m / % vol × m / % LEL × m
Operating temperature	1.4 °F ~ 122 °F
Weight	1.32 lb (including battery)
Guide laser	GREEN laser (class 3R: ≥5 mW)
Certificate	 ATEX II 2 G Ex ib op-pr/op-is IIA T1 Gb, I m2 Ex ib op-pr/op-is, CE

Technical specifications subject to change without prior notice.

Features of the new Laser Methane mini

A new era in portable methane detection has arrived. The truly portable and handheld Laser Methane mini (LMm) offers users the ability to detect methane remotely. What once was a time consuming and resource draining procedure can now be completed in a fraction of the time by utilizing the best in Tunable Diode Laser Absorption Spectroscopy (TDLAS).

Current methods such as FID, require users to be within arm's reach of a potential methane source, and to position the detector into the gas cloud, often requiring scaffolding or special access equipment to reach the area of interest. In stark contrast, the Laser Methane handhelds only need the emitted beam to pass through the gas cloud in order to detect methane. By simply pointing the laser beam towards a suspected leak, or along a survey line the handheld detector will monitor the level if methane is detected.

