

# Laser Methane Mini

Methane Detection at a Distance



- Visual and audible alarms
- Lightweight and portable
- Bluetooth connection
- Data logging capabilities



# Laser Methane Mini

## Remote Methane Gas Detection

**When lives and property are at risk and you need gas detection equipment that is totally reliable, you need Crowcon. For over 40 years Crowcon has been developing and manufacturing high quality products with a reputation for reliability and technical innovation.**

**Crowcon provides both single gas and multigas monitors for personal and portable safety applications providing protection against a wide range of industrial gas hazards.**



## Choosing a portable gas detector for your needs

Laser Methane mini (LMm) is a compact handheld detector that can detect methane gas from a safe distance. Utilising laser technology, methane leaks can be quickly confirmed by pointing the laser beam towards the suspected leak, or along the survey line. This revolutionary technology removes the need to access elevated places, under floor or other hard to reach areas. It is also ideal for surveying large open spaces e.g. landfills or along pipelines.

**NEW!** LMm is now available with a green laser guide light, which is more visible especially under strong sunlight. The Laser Methane Mini-Green (LMm-G) combines the benefit of LMm with additional data storage functions and comes with Bluetooth capability, which can be connected to any android device (through the Gasviewer app) for a variety of data storage functions. Important data like location, gas levels and time can also be saved or emailed to a central point.

LMm and LMm-G are easy to operate and require little maintenance. An automatic self check and calibration ensures consistent performance and reliability every time the units are turned on.

### User friendly

Point and shoot technology	Requires little or no training and is easy to use
Compact and lightweight	Truly portable
Green/Red guide laser light	Clear visibility of where you are surveying
Wide organic electroluminescence display	Clear and bright readout on screen

### Reliability

No moving parts	Little maintenance required
Self-check and automatic calibration start up	Ensure accurate and reliable reading

### Records

Data storage	Full data logging capabilities
Bluetooth and Gasviewer app	Connectivity to android devices
Location service in Gasviewer app	Display and save value as well as location and time on map



LMm



LMm-G



Gasviewer App

## Measurement principles:

Methane absorbs a specific wavelength of infrared rays. The laser diode emits infrared laser, receives the diffused light back and measures the absorption of the light. A reflective surface is required for proper measurement of methane gas. The laser beam from LMm can penetrate opaque surfaces, for example, glass or perspex.

The LMm and LMm-G measure the average methane gas density between the detector and target readings are reported in ppm-m as it is the product of concentration of methane cloud (ppm) and path length (m).

### LMm:

### LMm-G:

<b>Size</b>	70 x 179 x 42mm, (2.8 x 7 x 1.6 inches) WxDxH	70 x 179 x 42mm, (2.8 x 7 x 1.6 inches) WxDxH
<b>Weight</b>	600g (including Ni-MH battery pack)	530g (including Ni-MH battery pack)
<b>Operating time</b>	Approx. 6 hours	Approx. 4.5 hours
<b>Operating temperature range</b>	-17 - +50°C	-10 - +50°C
<b>Target gas</b>	Methane (CH <sub>4</sub> ) and methane -containing gases	Methane (CH <sub>4</sub> ) and methane-containing gases
<b>Detection limits</b>	1-50,000 ppm-m (%LEL or % Vol available)	1-50,000 ppm-m (%LEL or % Vol available)
<b>Accuracy of detection</b>	±10%	±10%
<b>Detection distance (standard)</b>	0.5m - 30m	0.5m - 100m (using an optional reflect sheet)
<b>Ingress protection</b>	IP65	IP65
<b>Guide laser light colour</b>	Red	Green
<b>Certificate</b>	Class 2:1mW CE (ATEX & EMC)	Class 3R: 5mW CE (R&TTE)
<b>Best Application</b>	Hazardous areas	Outdoors under strong sunshine

## Applications:

- Industrial and commercial property surveys
- Emergency call out
- Gas plants
- Landfill gas monitoring
- Road surface survey
- Pipeline survey



New products available within the fixed and portable range are:



**Crowcon F-Gas Detector**  
Refrigerant Gas and SF<sub>6</sub> Detector



**Gasmaster**  
1-4 channel  
control system



**Detective+ and Detective Net**  
Transportable wireless area  
gas monitor



**Gas-Pro PID**  
5 gas VOC monitor



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Crowcon reserves the right to change the design or specification of the product without notice.  
Check [www.crowcon.com](http://www.crowcon.com) for updates

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**CROWCON**  
Detecting Gas Saving Lives