

# Laser Methane Smart

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The next generation LaserMethane and inspection management solution that helps manage and document leaks until repairs are complete. The LaserMethane Smart is capable of detecting methane leaks at a distance up to 30m. It enables companies to quickly survey multiple leak risks, and safely, without having to enter a hazardous area, allowing workers to quickly and effectively manage the entire maintenance process. Now with a camera to shoot an inspection point with a measured value and send output to the cloud server.

The detector measures the characteristics of methane, which is absorbed into the laser beam (infrared beams) of a specific wavelength (infrared absorption technology). The directed laser reflects back a diffused beam from the target, where the device will receive the reflected beam and measure the absorptivity of the beam, that is then calculated into methane column density (ppm-m).



## User Friendly

Point and shoot technology	Easy to operate with little or no training required
Simple two button operation	Can be used while wearing gloves
Intuitive functionality	Reduces training time
Persuasive evidence	One image file containing measurement point, measured value and time stamp so they can be altered on a cloud server via android or IOS devices.
Green light laser guide	Gives clear visibility of the searching point even in bright sunlight

## Adaptable

Remote detection	Searching range of 30m keep operators further away from harm, in safer areas.
Next generation technology	No moving parts and no gas suction means little maintenance is required as it inherits the proven LaserMethane technology

## Reliable

Easy set-up and maintenance	Little maintenance with self-check and automatic calibration on start-up
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## Specification

Models	LM2B3E-SBA – Bluetooth enables data storage via communication with the cloud
	LM2B3E-SNA – No Bluetooth
Target gas	Methane (CH <sub>4</sub> )
	Methane containing gases (e.g. natural gas)
Size	55 x 200 x 53mm (2.17 x 7.87 x 2.09in)
Display	2.7inch display with touch panel
Range	1 to 50,000 ppm•m
Accuracy	±10% at 100ppm•m and 1000ppm•m in dedicated measurement systems
Response time	0.1s
Sensing distance	0.5m - 30m
Power supply	Designation batteries (AA nickel-hydrogen batteries) Certified approved batteries: Panasonic Corp Eneloop
Battery Life	Full operation at 25°C, battery life depends on chosen battery pack: Panasonic Eneloop Pro: 3.5 hours
Operating temperature	17°C to +50°C (62.6°F to +122°F)
Humidity	30 to 90% RH non-condensing
Ingress protection	Independently tested to IP54
Approvals	EX II 3 (1) G EX ic [op is Ga] A T4 Gc ATEX: EN60079-0, -11, -28 IECEX: IEC60079-0, -11, -28
Data Storage	microSD card (16 GB)
Laser safety	IEC600825-1 2014 Guide laser beam Output wavelength: 520nm Output level: 5mW (Class 3R) Below***
Crowcon Connect Compatible?	No

\*batteries supplied separately

\*\* Note: Detection accuracy of 100ppm-m and 1,000ppm-m in dedicated measurement systems

\*\*\* Note: Do not look directly into the laser beam

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