

Laser Methane Smart

Compact and portable
methane gas detector
with a camera to shoot
an inspection point

Suitable those working in areas with
gas distribution systems, gas storage,
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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

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| 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

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| 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

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

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| Models | LM2B3E-SBA – Bluetooth enables data storage via communication with the cloud |
| | LM2B3E-SNA – No Bluetooth |
| Target gas | Methane (CH ₄) |
| | 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 (1.4°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