



## Remote Laser Methane Detector

# LPDM-15

- < Durable aluminum alloy housing
- < Detection distance: up to 15 meters (49.2 ft)
- < Small size and weight
- < Up to 8 hours of battery life
- < Impact resistance, moisture and dust resistance (IP54)
- < Fast response and large measurement range

DETECTION  
DISTANCE

# 15 m

# LPDM-15

## Miniature Remote Laser Methane Detector

The LPDM-15 laser methane detector is a gas detector for remote measurement of methane content at a safe distance. The device emits two lasers, a green indicator laser points to the detection area, accompanied by the invisible infrared laser can measure the concentration per unit (ppm-m) of methane gas present at a long distance.

The operation of the LPDM-15 is based on the principle of tunable diode laser absorption spectroscopy (TDLAS), which allows you to quickly detect gas leaks at a distance of up to 15 meters, it only responds to methane (selectivity). The concentration of methane can be calculated by measuring its absorbance. The detector allows you to quickly determine the presence of methane vapors even through glass.

The device is equipped with a sensitive sensor capable of detecting the presence of methane in concentrations from 100 parts per million × m, and the response rate is only 0.1 seconds.

### Technical Specifications

Measuring gas	Natural gas, Methane (CH <sub>4</sub> )
Operating principle	Tunable diode laser absorption spectroscopy (TDLAS)
Minimum detectable limit	100 ppm×m
Detection range	0 - 50000 ppm×m
Detection distance	15 m
Response time	0,1 sec
Working temperature	-10°C ... +40°C
Power supply mode	Lithium battery
Working humidity	<95% RH (no condensation)
Device housing	Aluminum alloy housing
Ingress protection	IP 54
Battery voltage	3.7V 1800mAh
Working time	8 hours
Alarm	The screen changes with the change of concentration value
Alarm volume	≥ 60dB
Size	122×31×33 mm
Weight	220 g



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