

# Compact and Portable Methane Gas Detector

**NEW**

# LaserMethane **mini**

## SA3C32A



## Capable of Detecting Methane Anywhere in an Easy and Accurate Way.

### ■ Intrinsically Safe Structure

- $CE$  0344  $Ex$   $I$   $2G$   $Ex$   $ib$   $op$ - $pr$ / $op$ - $is$   $I$   $IA$   $T1$
- Can be used in the following hazardous areas  
Zones 1 and 2 for city gas, coal mines and etc.

### ■ High-speed and High-sensitivity Measurement and Detection

### ■ Small and Light

### ■ Measurable Outdoors and Indoors

### ■ Graphic Display of Measurement Results

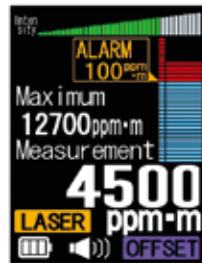
### ■ Wide Operating Temperature Range (-17°C to +50°C)

### ■ Long Continuous Operating Time

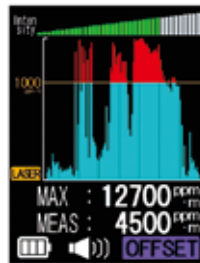
(approx. 4 hours at 25°C, Display Level 4 Blinking Mode)

## Feature of the new LaserMethane mini

The new Laser Methane mini (LMm) is capable of remotely detecting methane and other gases containing methane (natural gas or similar). It can quickly detect gas leaks or accumulated gas from a remote place by pointing a laser beam at the target. The new LMm has been dramatically renewed from its previous model and can even be used in coal mines, has lower power consumption enabling longer continuous operating hours, and with a wide operating temperature range.



Measured value mode



Graph mode

Detection Lamp

Display

Menu/Enter Button

▲▼ Buttons

Power Button

Start/Stop Button

Display/Back Button

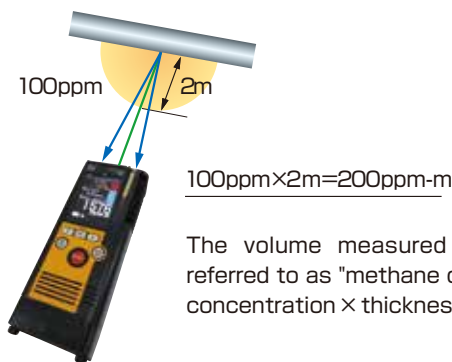
Battery Pack Fixing Screw



## Principle of measurement

The measurement principle of this equipment uses the characteristics of methane, which absorbs the laser beam (infrared rays) of a specific wavelength.

The laser beam directed at targets such as gas piping, ceiling, etc. will reflect back a diffused beam from the target. The device will receive the reflected beam and will measure the absorptivity of the beam, which will then be calculated into column density (ppm·m).



The volume measured by the LMm is referred to as "methane column density".  
concentration × thickness(ppm·m)

## Main specification

Gas to be measured	Methane(CH <sub>4</sub> )and methane-containing gases(natural gas or similar)
Measurable level	1~50, 000ppm·m*1
Measurable accuracy	±10% Measuring range : 100 to 1,000ppm·m
Measuring Speed	0.1second
Measurable distance	0.5m to 30m 0.5m to 100m (using a reflect sheet)
Power Supply	Dedicated rechargeable battery
Continuous Operation Time	Approx4hours (at25°C, Display level :4 Blinking Mode)
Laser Safety Class**2	Guide light : Class3R Measurement light : Class 1 (IEC 60825-1 :2007)
Intrinsically Safe Category	( $\text{Ex}$ ) <sub>ib</sub> IIC T <sub>1</sub> Ex ib op-pr/op-is I <sub>IA</sub> T <sub>1</sub> (EN 60079-0 : 2012 , EN 60079-11 : 2012, EN 60079-28 : 2007)
EMC	EN 61326-1 : 2013
Environmental Conditions	Operating temperature range : -17~50 °C Splash-proof and dust-proof structure (IP54)
Dimension and mass	70 (W) × 179 (D) × 42 (H) mm 600g or less (including a battery)

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

\*\*2 Warning Label



### Safety precaution

- Please use this device to detect the target gases only. Gases other than the target gases cannot be detected by this device.
- Please use the dedicated battery only. Using other batteries or power supplies may damage the device or cause electric shock or other serious risks.
- To recharge the battery, please use the dedicated battery charger and specified AC adapter.
- Since the green guide laser (Class 3R laser) and infrared laser (Class 1 laser) are both emitted from the beam source, please do not look into the beam source nor point the laser beam into human eyes.

Specifications are subject to change without notice.

## Standard accessories

- Rechargeable battery
- Battery charger
- Strap
- Protector
- Carrying case



Protector

For further information, please contact the distributor below.

### Distributor North America:

Pergam Technical Services, Inc.  
209 SW 41st Street  
Renton, WA 98057  
1-877-317-2534  
www.pergamusa.com

### Manufacturer

**Anritsu ANRITSU CORPORATION**

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