



Methane Leak Detection

LaserMethane[®] mini

Easy to use portable methane detection device able to detect escapes from a safe distance.
Designed to ATEX approval standards for hazardous areas.
Detects gas in high and hard to reach situations - FAST.

Remote Measurement and Detection

- 0 - 100m measurable distance
- Detection through single glazed glass

Methane Selectivity

- Only responds to methane
- Accurate measurement and detection
- Responds to methane even when other gases are present

Portable

- Truly hand held
- Lightweight and compact design
- Start-up, self check and self-calibration

High Speed and Sensitivity

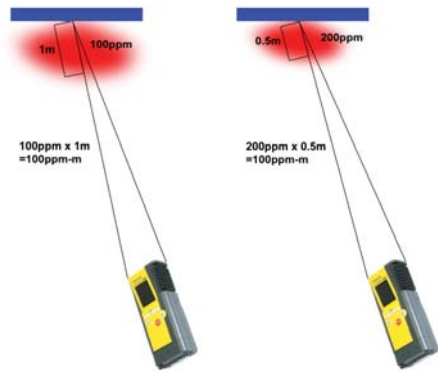
- Response as fast as 0.1 seconds
- Detects from ppm to saturation

User Friendly

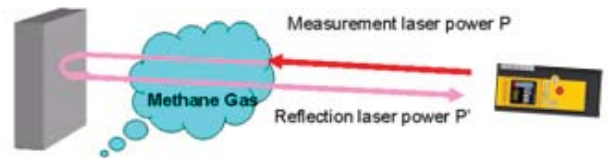
- Full colour LCD screen
- Graph or numeric display
- User programmed alarm & offset levels
- Reflection intensity monitor

ATEX Approved

Typical Data	600g (1.3lbs)
Dimensions	70 x 179 x 42mm (2.8 x 7 x 1.6in) (WxDxH)
Target gas	Methane (CH ₄)
Detection method	Tunable diode laser absorption spectroscopy (TDLAS)
Detection distance	30m standard mode Up to 100m with reflector
Measuring range	0-99,999 ppm.m
Measuring accuracy	+/-10% @ 100 ppm.m (2m) +/-10% @ 1000 ppm.m (2m)
Detection speed	~0.1 seconds
Detectable range	10 - 50,000 ppm.m (Detectable range depends on the reflecting object and detection distance)
Audible alarm	Volume adjustable buzzer - up to 70dB @ 0.5m
Reflect warning	Insufficient reflect warning, audio and visual
Display	Full Colour LCD
Operation	Logical menu functions
Battery	Rechargeable nickel metal hydride
Operating time (laser on)	5 hours minimum per charge (4hr recharge) at 25°C
Operating temperature	-17° to 50°C (1° to 122°F)
Operating humidity	30 – 90%
ATEX	Main body: Ex II 2G Ex ib op-pr/op-is IIA T1 Battery pack: Ex II 2G Ex ib IIA T1
IP rating	IP54
Laser safety	IEC60825-1:2001
Marker laser	Output wavelength: 650 nm Output level: 1 mW (Class 2) or less
Detection laser	Output wavelength: 1653 nm Output level: 10 mW (Class 1) or less NEVER LOOK INTO THE LASER BEAM
EMC	EN61326-1:2006
Accessories:	Battery charger Operation manual Rechargeable battery Strap Protective boot
Optional extras:	Carry case Extra battery Vehicle power inverter Laser enhancement glasses
Instructions for use:	1. Never point this detector towards the sun 2. Never look into the laser beam
LaserMethane is co-developed by Tokyo Gas Co. Ltd., Tokyo Gas Engineering Co., Ltd. and ANRITSU CORPORATION	



In these examples both measured values correspond to the same methane column density



Measurement laser power : P
Reflection laser power after methane pass : P'
The ratio of P and P' is equivalent to the methane density (ppm·m)

Product label

LASER RADIATION
DO NOT STARE INTO BEAM

(MAX OUTPUT POWER) (PULSE DURATION) (WAVELENGTH)
1mW CW 650nm

IEC 60825-1:2001
CLASS 2 LASER PRODUCT

⚠ DANGER

Do NOT charge the SA0Z40A Battery Pack in explosive atmospheres.

SA3C31A LaserMethane mini

CE 0344 Ex II 2G Ex ib op-pr/op-is IIA T1
KEMA 08ATEX0005 Ta: -17 to +50°C N274

CERTIFICATION LABEL

THIS PRODUCT COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 50, DATED JUNE 24, 2007

IDENTIFICATION LABEL

ANRITSU CORPORATION.
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MANUFACTURED AT: TOHOKU ANRITSU CO., LTD. KORIYAMA PLANT, FEBRUARY, 2007

MADE IN JAPAN SN : 1234567890

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