

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

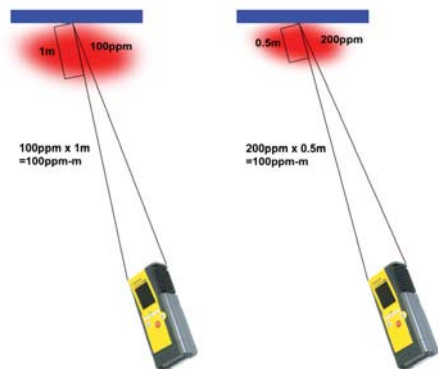
ATEX Approved

Typical Data

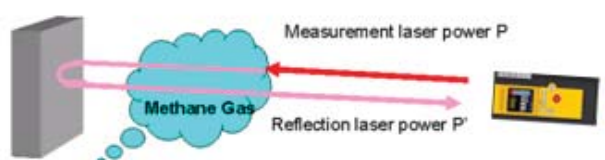
Weight	600g (1.3lbs)
Dimensions	70 x 179 x 42mm (2.8 x 7 x 1.6in) (WxDxH)
Target gas	Methane (CH ₄)
Detection method	Tunable diode laser absorption spectroscopy (TDLAS)
Detection distance	Up to 0.5m to 30m standard mode Up to 30m to 100m with reflector
Measuring range	0-99,999 ppm.m
Measuring accuracy	+/-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

Local agent and distributor details



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.
5-1-1, Onna, Atsugi-shi, Kanagawa 243-0555, Japan
MANUFACTURED AT: TOHOKU ANRITSU CO., LTD.
KORIYAMA PLANT, FEBRUARY, 2007

MADE IN JAPAN SN : 1234567890





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)1245 600560

Fax: +44 (0)1245 600030

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.