



ARD Series

Remote Methane Leak Detector



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QINGDAO ALLRED ELECTRONICS CO.,LTD.

Company Profile

Qingdao Allred Electronics Co., Ltd. is a high-tech enterprise dedicated to the development and application of gas detection technology. Our main products are Remote Methane Leak Detectors and Infrared-Based Gas Detectors.

We are located in Qingdao, Shandong Province in China. The company's predecessor was the infrared technology division of Qingdao ALPTEC Safety Equipment Co., Ltd., which has more than 20 years of experience in the design, development and manufacturing of Overfill Protection & Grounding Systems and is a leader in the field of safety equipment in hazardous chemicals storage and transportation, petrochemical natural gas and other industries.

Our philosophy is to provide customers with a value-added experience through innovation; our code is to build a bridge of trust with customers through service; our idea is to establish new benchmarks for the industry through leading products and sincere service.

We have been working hard for the ideal and sincerely look forward to cooperating with you.



ARD Series Remote Methane Leak Detector

1 What to do if there are too many pipelines and there are not enough inspection staff?



Efficient remote detecting, no need to go everywhere

2 What should I do if the user is not at home & I cannot enter the house for security check?



Measuring height up to 30th Floor

3 What if the distance is too far to detect?



150m actual detection distance

4 What to do if a small leak is difficult to detect with similar equipment?



5ml/min small leakage flow monitoring

ARD1000

Remote Methane Leak Detector

Introduction

ARD1000 Remote Methane Leak Detector has the characteristics of long detecting distance, high sensitivity, and long battery life. It can adapt to various gas leak detection occasions, especially the residents' kitchens and long-distance upright pipe detection.

Features & Benefits



Equipped with dual display for easier reading



Equipped with optical sight Easier aiming and positioning



Larger light entrance path Ultra-long detection distance



ARD2000

Remote Methane Leak Detector

Introduction

ARD2000 Remote Methane Leak Detector is a lightweight, compact, and portable device. By optimizing the optical design, both the volume and weight of the product and the detection distance are taken into consideration.

Features & Benefits



Small and lightweight, easy to carry



Efficient optical design Longer detection distance



Internally powered optical sight Easier aiming and positioning



Specifications



ARD1000

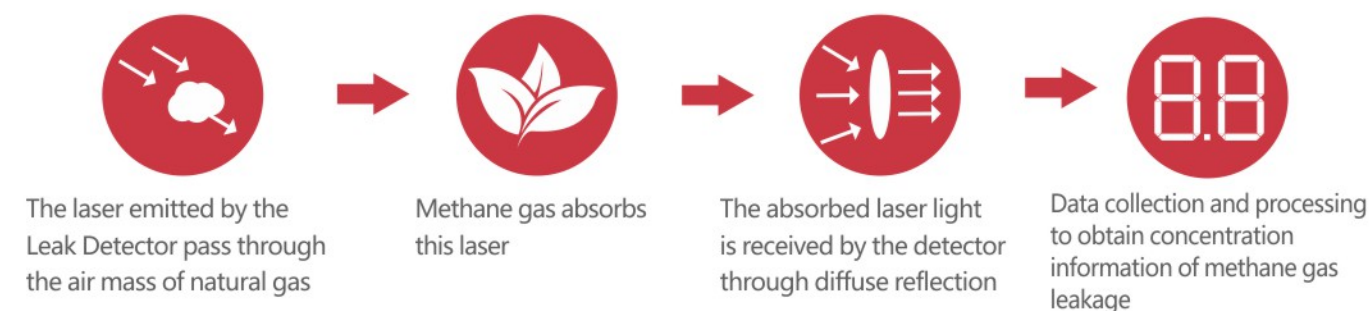


ARD2000

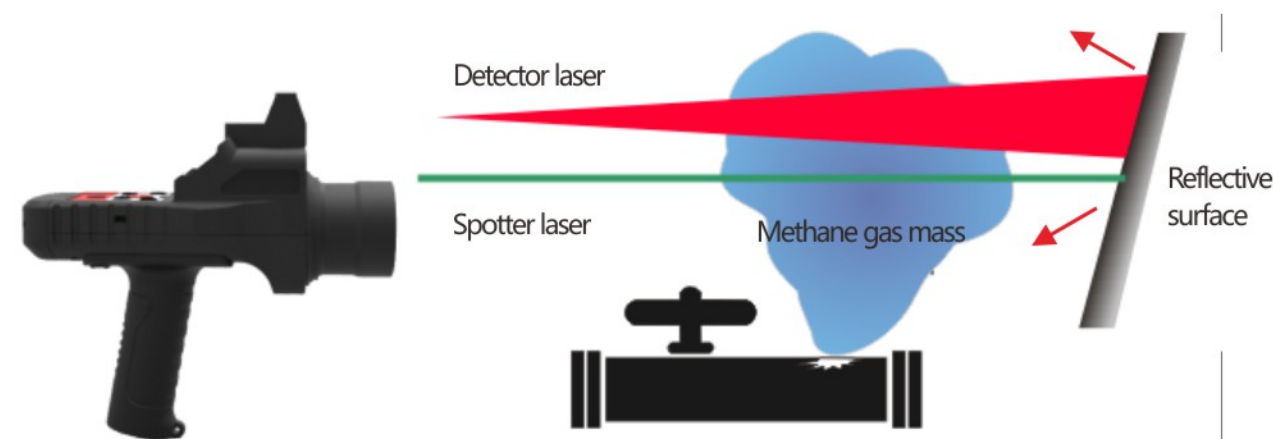
	ARD1000	ARD2000
Measurement Range	0 ppm · m ~ 99999 ppm · m	0 ppm · m ~ 99999 ppm · m
Sensitivity	5 ppm·m	5 ppm·m
Detection Distance	200 m	150 m
Laser Class	Detector Laser: Class I Spotter Laser: Class III R Protect your eyes from direct exposure	Detector Laser: Class I Spotter Laser: Class III R Protect your eyes from direct exposure
Response Time	0.1 s	0.1 s
Explosion Proof Classification	Exib IIA T3 Gb	Exib IIA T3 Gb
Enclosure	IP54	IP54
Operating Temperature	-20°C~50°C	-20°C~50°C
Battery Operating Life	Single battery working time is more than 12 hours	Single battery working time is more than 8 hours
Power Supply	Rechargeable Lithium battery	Rechargeable Lithium battery
Instrument Weight	Hand-held detection section 1.3 kg Battery section 0.7 kg	0.65 kg
Aiming Method	Sight lens and spotter laser	Sight lens and spotter laser

Principle Introduction

ARD series Remote Methane Leak Detector uses advanced TDLAS technology to make use of diffuse reflection of irradiated laser light on the surface of the object and absorption of specific wavelength laser light by methane gas, which can quickly achieve remote detection of methane gas, especially suitable for various leak detection occasions where people cannot access.



The concentration information is column density of methane (ppm·m) = methane concentration (ppm) x air mass thickness (m)



Common Problems

- At present, can Remote Methane Leak Detector replace traditional handheld alarms?
The detection principle of the Remote Methane Leak Detector requires that methane can form air masses with a certain thickness, which is restricted by the environment (such as wind), and sometimes small leaks cannot form sufficient air mass thickness, which will affect the detection sensitivity. Therefore, the current Remote Methane Leak Detector can be regarded as an effective supplement to the existing gas leak detection methods. In the gas industry standard CJJ / T215-2014 "Technical Regulations for Leak Detection in Urban Gas Pipeline Networks", it is stipulated that the Remote Methane Leak Detector is suitable for detecting overhead pipelines and inaccessible gas equipment and facilities.
- Can Remote Methane Leak Detector distinguish natural gas and biogas?
No, the Remote Methane Leak Detector only targets methane gas, while the main components of both natural gas and biogas are methane, so it cannot be distinguished.
- Can Remote Methane Leak Detector penetrate glass for detection?
Yes, the laser can penetrate all common transparent objects, so the Remote Methane Leak Detector is often used to penetrate window glass to detect indoor gas leaks.
- What will affect the detection distance of the Remote Methane Leak Detector?
The detection distance is affected by the reflecting surface and sunlight. The higher the reflectivity of the refracting surface, the longer the detection distance, the stronger the sunlight, the closer the detection distance. Therefore, the detection distance data of ARD series are based on the direct reflection of the concrete wall with direct sunlight.