TELEDYNE GAS MEASUREMENT INSTRUMENTS
Everywhereyoulook™

GAS LASER

FIRE RMLD

Natural Gas Leak Detector

Highly advanced laser technology designed to detect natural gas with the aim of enhancing safety and improving detection for fire services, first responders and utility markets.

Features

- Quickly scan common venting points from a **Safe Distance**
- Highly visible, sunshine resistant **Guide Laser** equipped for location accuracy
- **Graphical Interface** for easy user interpretation
- **Color Camera** with Bluetooth, WiFi, and datalogging onboard
- **Trusted Technology** used in gas utility since 2005
- **Certified Intrinsically Safe** to Class I, Division 2, Group D

Gas Laser

Specifications

General

Weight	3 lbs (approx.)
Carry case dimensions	21" x 17.5" x 9.5"
Display	3.5" color LCD
Storage	Internal SD card (not removable)

Power

Battery	Removable Rechargeable Lithium-ion pack, 10.8 VDC 2.6Ah
Battery Run Time	8 hours at 32°F (approx.)
Battery Charger	External 110-240 VAC, 50/60 Hz Universal
Charge Time	2-3 hours full charge (approx.)
Charging Indicator	Integrated into Dual Battery Charger

Detection/Measurement System

Detection Method	Tunable Diode Laser Absorption Spectroscopy (TDLAS)
Detection Distance	100 ft (30m) nominal - may vary due to background type and conditions
Measurement Range	0 to 50K PPM-M
Sensitivity	5 PPM-M at distances from 0 to 100 ft (30m)
Beam Size	Conical in shape with a 22" diameter at 100 ft (55cm at 30m)

Lasers

IR Laser	Class I
Spotter Laser	On time duration is 2 minutes Class 2(II)<2mW @532nm Spot Size is 7mm at 15M
Eye Safety Warning	Do not stare into beam or view directly with optical instrument

Display

Resolution	320x240

Camera

Color	
Aperture	f/2.6
FOV	94DEG (at6.0mm image circle)

GPS

Compatible with	GPS / GLONASS / Beidou / Galileo

Communication

Bluetooth 4.2 BLE (to support future features and mobile applications)
Wi-Fi
USB Dual Mode

Alarms

Digital Methane Detection (DMD)	Audible tone and visible color border when detection threshold exceeded
Adjustable Detection Alarm Level	
50'	1 to 200 PPM-M
100'	1 to 400 PPM-M
System Fault & Warnings	Audible alarm and visual indication on the display

Testing

Built-In Self-Test	Verifies operation and adjusts laser wavelength for maximum sensitivity
Test Gas Cell	Integrated within carrying case

Datalogging

Saves to Internal Memory	FAULT logs Self-Test logs Captures
Data Collected	Includes but not limited to: CH_4 PPM-M measurement GPS location Timestamp Battery level Battery voltage Serial number of the instrument

Operating Conditions

Operating Temperature	0° to +122°F (-17° to 50°C)
Humidity	5 to 95% RH, non-condensing

Regulatory

Instrument Protection	IP54 (water splash and dust resistant)
Compliance	EMC (EN61000-6-2, EN6100-6-4) Certified Intrinsically Safe to Class I, Division 2, Group D
Radio Equipment Directive	(2014/53/EU) ETSI EN 301 489-1 v2.2.0
EN 61326-1:2013	
47 CFR Part 15 & ICES-003	

We are committed to ensuring the quality and continuous improvement of our products. The information contained in this brochure is therefore subject to change without notice, only the technical data contained in the manual is binding. For more information, please contact us or our distributor.

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