

RMLD - First Responder



FR

Specialty
Next Generation

January 2021

CS

Next Generation

Released 2019

IS

Legacy

Released 2005

The Remote Methane Leak Detector - First Responder (RMLD-FR™) is part of our RMLD family of instruments. Highly advanced technology designed to improve safety and efficiency for the detection of natural gas for the fire service/first responder and utility markets.



Your Safety...Our Commitment



Heath's RMLD technology has been trusted worldwide since 2005, with thousands of legacy units currently sold.

The Heath Remote Methane Leak Detectors are highly advanced technologies, capable of detecting methane leaks from a remote distance utilizing TDLAS (tunable diode laser absorption spectroscopy).

The RMLD - First Responder (RMLD-FR) allows first responders to quickly scan common venting points within a structure from a safe distance to determine if there's methane gas present. This instrument is based upon our highly

successful RMLD legacy and RMLD-CS designs with many of the same features and functionality as the RMLD-CS but with a simplified user interface.

All too frequently first responders are called to minor and major natural gas emergencies, using equipment that puts them too close to potentially dangerous structures. The RMLD-FR's remote detection allows the operator to shine the beam through most windows, giving them an audible and visual signal as to

the presence of methane. This quick scan permits first responders to make quick decisions and establish control of the gas and ignition sources if a detection is present.

The instrument includes features demanded by a growing technology market including GPS, Bluetooth BLE, WiFi, self-test, color camera, graphical user interface and more.



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 (at 6.0mm image circle)

GPS

Compatible With

GPS

GLONASS

Beidou

Galileo

Communication

Bluetooth 4.2 BLE (to support future features and mobile applications)

WiFi

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

Data Logging

Saves to Internal Memory

FAULT logs

Self-Test logs

Captures

Data Collected

Includes, but not limited to:

CH4 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)

Radio Equipment Directive

(2014/53/EU) ETSI EN 301 489-1 v2.2.0

EN 61326-1:2013

47 CFR Part 15 & ICES-003

**THESE ARE PRELIMINARY
SPECIFICATIONS SUBJECT
TO CHANGE**



Your Safety...Our Commitment

Since 1933 Heath Consultants Incorporated has led the industry in the safety of natural gas utilities infrastructure through the innovative and conscientious actions of our employees.

Heath's innovative products have led to safer survey practices for both gas utilities and within our own field services division. These breakthroughs in technology are due in large part to the efforts of our engineering and marketing experts who research and develop new products and services through strategic partnerships with well recognized research and development organizations and industry trade associations.

Heath is certified as a women's business enterprise by the Women's Business Enterprise National Council (WBENC), the nation's largest third-party certifier of the businesses owned and operated by women in the U.S.

Protecting People and the Environment by Embracing Safety and Encouraging Innovation



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Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.