



RMLD-Complete Solution



**RMLD-CS™**  
Remote Methane Leak Detector Complete Solution

Recognize the potential for increased safety, significant productivity gains and time-savings with the RMLD-CS™. Remote detection allows utility services personnel and first responders to quickly scan an area for suspected gas leaks at a safe distance.

The **HEATH** Remote Methane Leak Detector - Complete Solution (RMLD-CS) is a highly advanced technology, capable of detecting methane leaks from a remote distance utilizing the same TDLAS (tunable diode laser absorption spectroscopy) technology as the current RMLD. This instrument eliminates the separate receiver and transceiver, combining them into one hand-held instrument that is lightweight, portable and field rugged. The RMLD-CS makes it possible to detect leaks without having to travel the entire length of the pipe line, thus creating safer surveys in areas that may be difficult to reach such as busy roadways, yards with dogs, fenced off areas and other hard to access places. It operates under a variety of field conditions including a wide temperature range, light rain and fog. Its rugged design will stand up to normal field use and operating conditions and its sensitivity or range is not affected by reasonable amounts of dust on the instrument's window.

**FEATURES:**

- ✓ Intrinsically safe
- ✓ Rechargeable/replaceable battery
- ✓ Dual battery charger
- ✓ Mobile App support
- ✓ Ergonomic housing
- ✓ Lightweight
- ✓ Graphical user interface
- ✓ Internal data logging
- ✓ WiFi
- ✓ GPS
- ✓ Bluetooth BLE
- ✓ Color camera and display

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# SPECIFICATIONS

## General

### Weight

3 lbs (approx.)

### Carry Case Dimensions

21" x 17.5" x 9.5"

### Display

3.5" color LCD, 320 x 240 resolution

## Power

### Battery

Removable, Rechargeable  
Lithium-ion pack, 10.8 VDC at 3.2Ah

### Battery Run Time

8 hours at 32° F (approx.)

### Battery Charger

External, 110-240 VAC, 50/60 Hz  
Universal

Dual Bay, Delivers 12W at 25°C per battery

### Charge Time

2-3 hours full charge (approx.)

## 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

### Green Spotter

Class 2(II) <5mW @ 510-530 nm  
Spot size is 7mm at 15M

Complies with 21 CFR 1040.10 and  
1040.11 except for deviations pursuant  
to Laser Notice No. 50, dated June 24,  
2007

### Laser Eye Safety Warning

Do not stare into beam or view  
directly with optical instrument

## Color Camera

### Aperture

f/2.6

### FOV

94DEG (at 6.0mm image circle)

## GNSS Compatibility

GPS  
GLONASS  
Beidou  
Galileo

## Communication

USB Dual Mode – flash drive and  
communications  
USB Port Max Rating: Um = 5V, In = 5 A  
Bluetooth 4.2 BLE

WiFi b/g

## Alarms

Digital Methane Detection (DMD)  
Audible tone and visual alerts when  
detection threshold exceeded

Adjustable Detection Alarm Level  
1 to 999 PPM-M

Alarm Response Time  
Typically 0.1 - 0.2 seconds

Real Time (RT)  
Continuous beep rate relative to  
concentration from 10-1000 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

## Operating Conditions

Operating Temperature  
0° to +122° F (-17° to 50° C)

### Humidity

5 to 95% RH, non-condensing

### Altitude

Up to 2000M

## Environment of Use

Pollution degree 2 or better  
Outdoor use

## Regulatory

### Ingress Protection

IP54 (water splash and  
dust resistant)

### Compliance

EMC (EN61000-  
6-2, EN6100-6-4)

Low Voltage Directive  
(2014/35/EU)

Radio Equipment Directive  
(2014/53/EU)

ETSI EN 301 489-1 v2.2.0  
EN 61326-1:2013  
47 CFR Part 15 & ICES-003

## Ordinary Location Safety

UL 61010-1  
CAN/CSA-C22.2 No 61010-1-12

## Hazardous Location Safety

Class I, Zone 2, AEx ic op is IIA T4 Gc  
Class I, Division 2, Group D  
Intrinsically Safe

## Ordering Information

### RMLD-CS - HPN 105301

Includes carry strap, case,  
battery charger, power supply,  
USB cable, one battery pack,  
gas calibration test cell

### IS Battery Pack - HPN 105727

Li-ion replacement battery

### Battery Charger Base

HPN 105358

### Battery Charger Cable

HPN 105359

Charges two batteries at one  
time



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