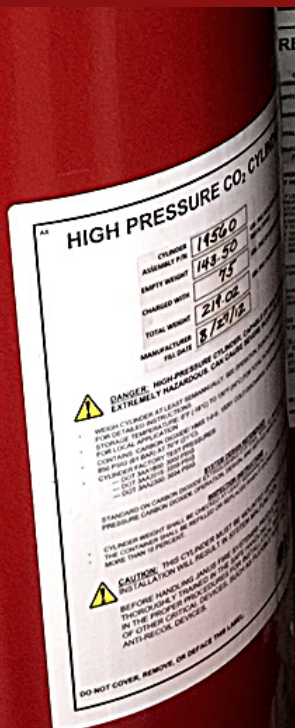# PORTABLE ULTRASONIC LIQUID LEVEL INDICATOR

## PORTALEVEL® MINI
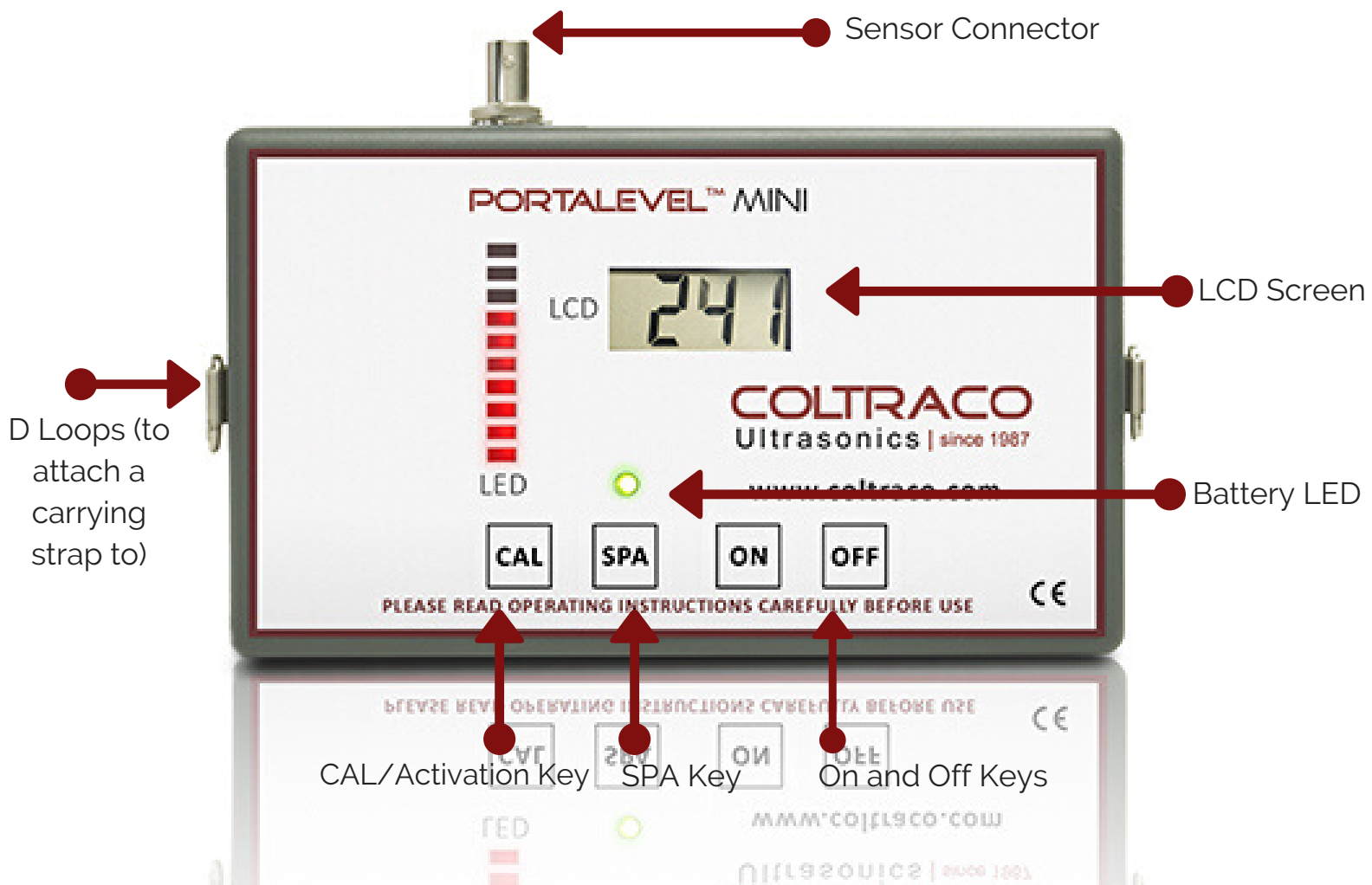
BROCHURE

# Introducing the Portalevel® MINI

The Portalevel® MINI is from the 'tried and tested' seventh generation portable ultrasonic liquid level indicator range by Coltraco Ultrasonics. Ideal for handsfree testing of cylinder contents of fire suppression systems

- **Type** – Portable Ultrasonic Liquid Level Indicator
- **Function** – Designed for servicing of fire suppression systems, such as $CO_2$, FM-200®, Novec™1230, FE-13™, FE-25, Halons and many more liquefied gaseous agents.
- **Part Number** – 2290334-MINI
- **Regulation Compliance**: NFPA, ISO 14520 & IMO SOLAS FSS

# TRUSTED HANDSFREE TECHNOLOGY

*Meet the Portalevel® MINI*

Sensor Connector

LCD Screen

D Loops (to attach a carrying strap to)

Battery LED

CAL/Activation Key    SPA Key    On and Off Keys

# Advantages

**1.**
**Easy to Use**
suitable for all level of skill from technicians to chief engineers

**2.**
**Accurate**
to  +/- 1.5 mm
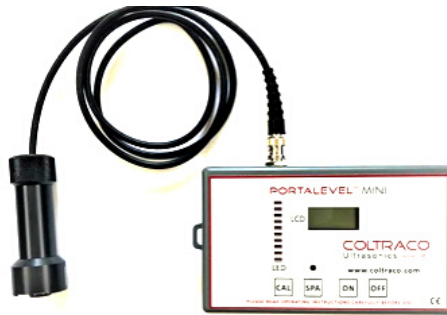to the true liquid level

**3.**
**Durable & Versatile**
robust, lightweight and tests a wide range of fire suppressant agents

**4.**
**Handsfree**
Simply attach your own carrying strap to the D loops

**5.**
**Saves Time & Labour**
compared to weighing

2 people weighing = 15 mins
1 person Portalevel® = 60 secs

**6.**
**Proven Technology**
Based on the 'tried and tested' 7th generation platform

**7.**
**Minimise Risk**
to personnel (i.e. no back injuries by heaving lifting) & environment

**8.**
**Improve Asset Safety**
test safely while system is fully operational

# Verifiable Agents

Including but not limited to the common liquefied gaseous fire suppressant agents e.g. $CO_2$, $H_2O$, FM-200®, NOVEC™1230, old Halons such as 1301 and 1211, FE-13™, FE-25™, FE-36™, HFC-225 & 227ea.

# Customer Testimonial about Portalevel® MINI

"We are satisfied with the equipment and its operation, it has been well received by the techs and has cut costs for us and our customers." - USA



" We are satisfied with the equipment and it's operation, it has been well received by the techs and has cut costs for us and our customers "

**TYLER, SAFETY COMPANY USA, OCTOBER 2018**

# Stay Compliant With The Regulations

Portalevel® enables you to go above and beyond regulatory compliance.

**NFPA Code 2001 Chapter 6 Inspection, Maintenance, Testing, and Training**
6.1.3 At least semiannually, the agent quantity and pressure of refillable containers shall be checked

**NFPA 12 Standard on Carbon Dioxide Extinguishing Systems**
Section 9.4 and Section 4.8.3.4.1 respectively: Cylinder contents checked every 6 months

**ISO 6183:2009 Section 9.2.1.3**
Loss in $CO_2$ quantity of more than 10% mass shall be refilled or replaced

**ISO 14520 Regulation Chapter 6 6.2.4.2 & Annex F 5**
Regulations for Gaseous Fire Extinguishing Systems and Room Integrity Testing methods.

**BS5306-4:2001 9.1.13**
At least every six months, the container contents shall be checked. If a container shows a loss of mass of 10 % or greater, it shall be refilled or replaced.

# Applications

| Fire Safety Engineering | High Rise Buildings | Power Generation |
|---|---|---|
| 'Must-have' tool for inspecting fixed fire suppression systems | Protect high value assets such as these by ensuring fire systems are always full | Minimise fire risk in areas including conventional, nuclear and renewable power plants, transmission & distribution. |

| Metal & Mining | | Rail |
|---|---|---|
| Minimise fire risk in a fire critical environment | | Ensure fire systems are ready to protect rolling stock and rail facilities |

| Data Centres & Banks | Industrial | Telecommunications |
|---|---|---|
| Protect from shut down and loss of data | Minimising fire risk in pharma, food and beverage production and many more | Protect masts and infrastructure from shut down |

# Benefits of ultrasonics vs. weighing

2 people

15 minutes

risk*

❌

1 person

60 seconds

safe*

✓

TIME **TO IMPROVE FIRE SAFETY.**

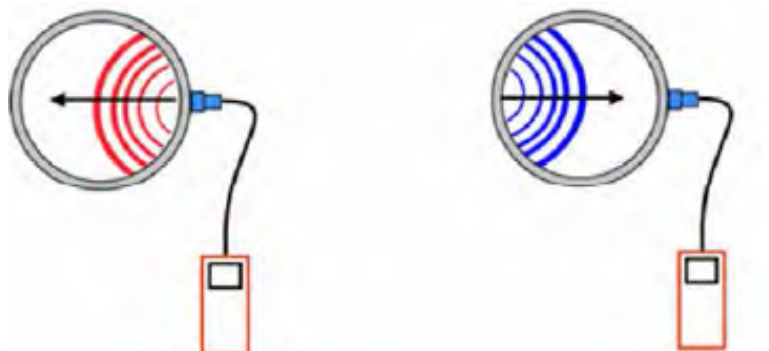TIME **TO STOP WEIGHING.**

TIME **TO SAVE TIME & COST.**

*Regulations allow liquid level testing. Whilst weighing is the traditional method, risks of weighing include: personnel (back injuries from lifting heavy cylinders); to infrastructure (turning your fire systems off means your asset is unprotected)

# How to Use - in 60 seconds

1. Connect main unit and sensor & Press the "On" button

2. Put a strip of gel on the cylinder and place sensor near the top of the cylinder

3. Move sensor down in steps of 5cm to the region with highest readings & press CAL to get a full bar graph

4. Move sensor in steps of 5cm or smaller until the LED graph disappears. This is your liquid level
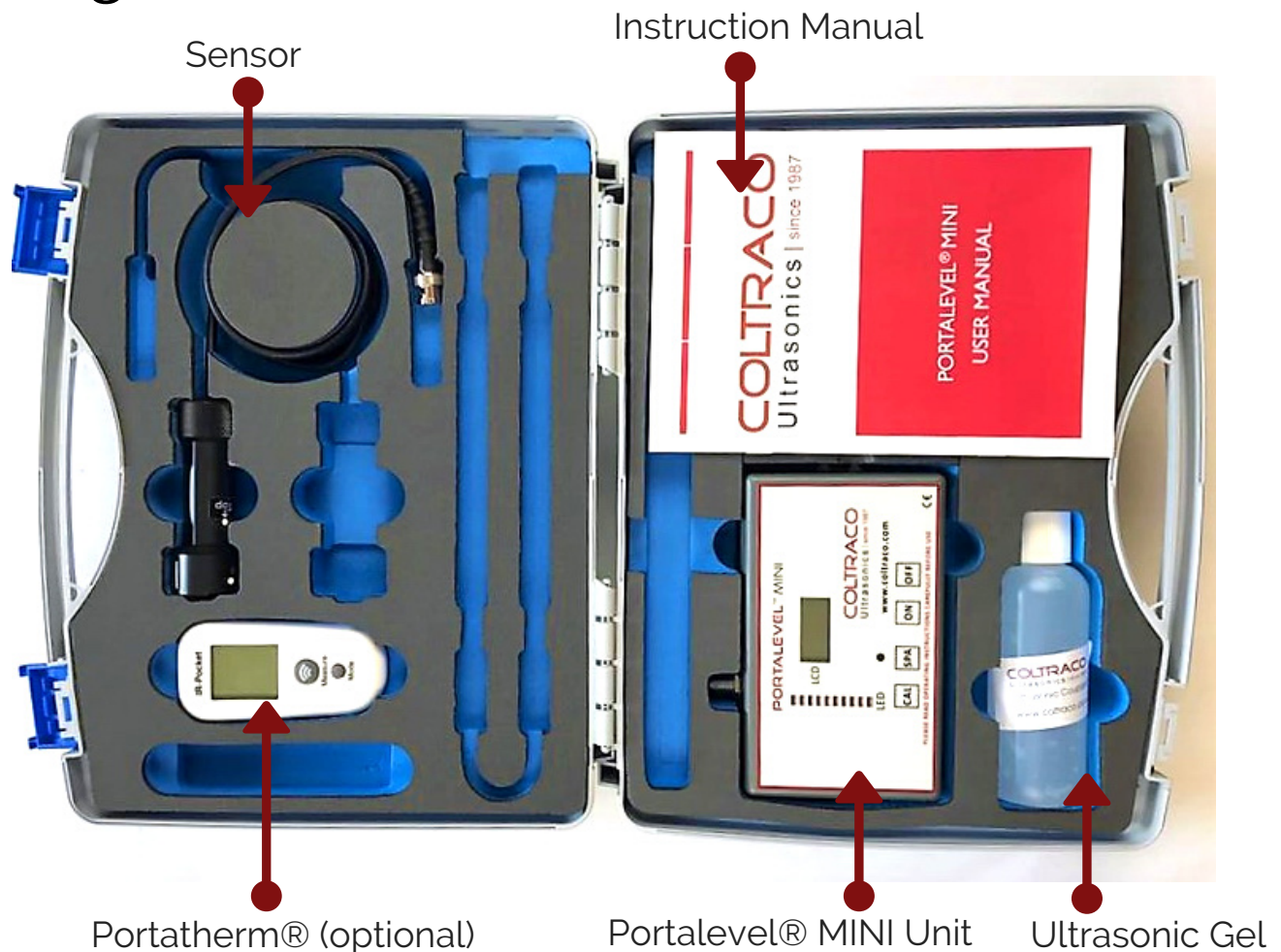
YouTube Channel
Coltraco Ultrasonics:
www.youtube.com/user
/ColtracoVideos

Indicative diagram showing the ultrasound waves travelling through a cylinder

# Package

Sensor

Instruction Manual

Portatherm® (optional)

Portalevel® MINI Unit

Ultrasonic Gel

# OPTIONAL: Convert Level to Weight with Portasteele® CALCULATOR

Find the liquid level with the Portalevel® MINI, then choose its perfect partner: Portasteele® CALCULATOR to convert the level into weight. Save money and buy together as a Portalevel® package.

4 Super Simple Steps:

1. Input the cylinder specifications

2. Calculate in under 30 seconds

3. Save your results in a database

4. Download in a spreadsheet for easy sharing

YouTube Channel Coltraco Ultrasonics:
youtube.com/watch?v=k4OwBL4GD9Y&t=4s

# Technical Specifications

| | |
|---|---|
| Dimensions | Main unit: 94.5 x 156 x 47mm |
| Weight | Main unit: 420 grams |
| Accuracy | ±1.5mm (1/8 inch) |
| Sensor | TX/RX sensor 14 mm diameter head contained within a magnetised sensor applicator; connected by BNC connectors to 1m length co-ax cable |
| Power Supply | 4 x AA 1.5V battery (battery life 10 hours) |
| Display | LCD Numeric Digital Display with LED Bar Graph |
| Operating Temperature | -20°C to +70°C (68°F to 158°F) |
| Classifications | RINA Classification Society Accepted |
| Certificates | Coltraco is CE, UKAS ISO 9001 Registered & ISO 14001 |
| Warranty | Main Unit: 3 Year Warranty<br>Sensor: 1 Year Warranty |
| Package Contents | 1 Main Unit<br>1 Sensor<br>1 Ultrasonic Gel Tube<br>1 Robust Carrying Case<br>1 Calibration Certificate<br>1 Operating Instructions |

# Why work with us?

## Improve your inspections & servicing

### COLTRACO CUSTOMER CARE

- Warranty: 3 year for main unit and 1 year for sensor
- Guaranteed against defects in materials & workmanship
- Technical Support for life time of the equipment via telephone/email
- Local Support in our ODA service centres strategically placed globally
- See terms and conditions for details

### OPTIONAL TOTAL CARE PACKAGE: PORTACARE®

If you would like enhanced after sales service please ask our sales team about Portacare.®.

### STORY OF COLTRACO

Since 1987 Coltraco Ultrasonics have been designing and manufacturing ultrasonic instrumentation for safety and servicing. We invented the first ever portable ultrasonic liquid level indicator in '87 and now in its 8th generation.

### QUALITY

All of our products are carefully hand built and undergo rigorous quality testing to ensure they meet the high standards expected by our customers, and provide long term reliability.

### OPTIONAL: ACCESSORIES

If you are testing multiple banked rows of cylinders you can test the 2nd, 3rd and 4th rows using an Extension Rod. Other accessories available on request - please ask for details.

### CUSTOMER TESTIMONIALS

> "
> Thank you very, very much for the quick response on the Calibration and Repair on our Liquid Level Indicators. My day's been made !
> **Safety Servicing Company, South Africa, 2018**
>
> WWW.COLTRACO.COM

> "
> Coltraco quality is always the assurance for safety, we are proud of yours performance.
>
> **- Capt. Thum, RTBS Group, Singapore, 2018**
>
> WWW.COLTRACO.COM

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WWW.COLTRACO.COM