



**COLTRACO**  
Ultrasonics | since 1987

# INTRINSICALLY SAFE PORTABLE ULTRASONIC LIQUID LEVEL INDICATOR

PORTALEVEL® IS 

BROCHURE

# Introducing the Portalevel® IS

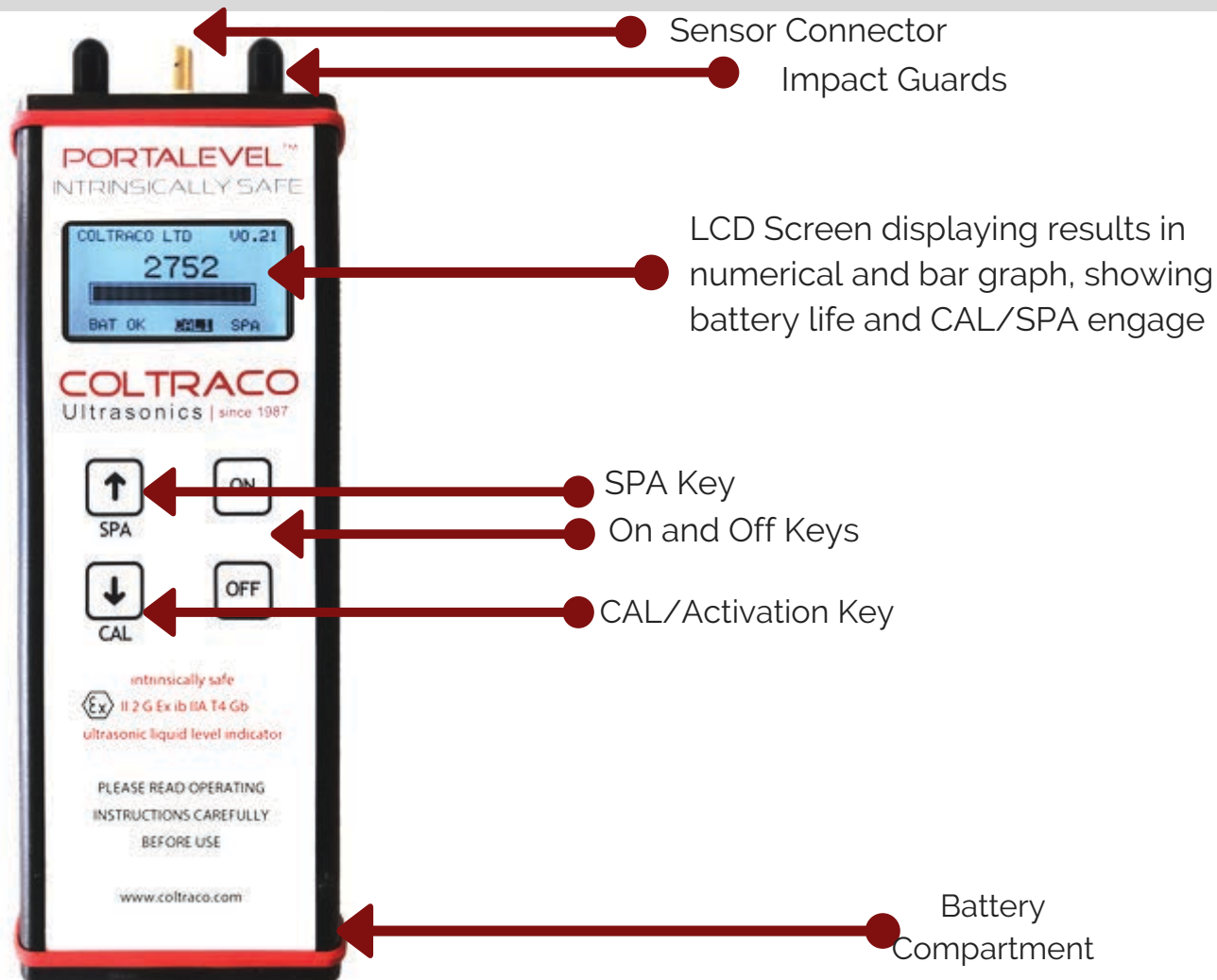
Portalevel® IS is a specialist variant of the MAX platform eighth generation portable ultrasonic liquid level indicator by Coltraco Ultrasonics with intrinsically safe approval by ExVeritas. Ideal for testing the cylinder contents of fire suppression systems in hazardous areas.

- **Type** – Intrinsically Safe Portable Ultrasonic Liquid Level Indicator
- **Marking** -  II 2 G Ex ib IIA T4 Gb
- **Function** – Designed for servicing of fire suppression systems, such as CO<sub>2</sub>, FM-200®, Novec™1230, FE-13™, FE-25, Halons and many more liquefied gaseous agents.
- **Part Number** – 2290334-IS
- **Regulation Compliance:** NFPA, ISO 14520 & IMO SOLAS FSS



## TESTING FIRE SAFETY IN HAZARDOUS ZONES

*Meet the Portalevel® IS*



# Find out if you need Intrinsically Safe

If you are maintaining fire suppression systems to identify cylinder contents of liquefied agents e.g. CO<sub>2</sub>, clean agent etc, in areas where you require Zone 1 instrumentation, you should use the Portalevel IS. It is safer than weighing. It is the only ExVeritas approved Portalevel model available from Coltraco Ultrasonics.

**Explosion Proof II** – For use everywhere (above ground) except underground mines

**Category 2** – Intended for use in areas where an explosive atmosphere is likely to occur in normal operation and must ensure a high level of protection. Examples of these areas are environments with gas, vapours and mists (IECEx Zone 1) such as:

- LNG Tankers
- Offshore Platforms with flammable gases
- Breweries
- Chemical plants
- Petrochemical
- Hazardous material storage facilities
- Automotive paint booths
- Gas plants and facilities
- Aircraft hangers
- Fuel servicing areas



**Hazard G** – Suitable for gas

**Type of protection Ex ib**– Intrinsic Safety. Intrinsic Safety is a design technique applied to electrical equipment and wiring for hazardous locations. The technique limits energy, electrical and thermal to a level below that required to ignite a specific hazardous atmospheric mixture.

**Gas Group IIA**– Suitable for flammable gases like methane and propane.

**Temperature Class T4**– Maximum surface temperature of the environment must not exceed 135 degrees Celsius. This is when the flammable gases will ignite.

**Explosion Protect Level Gb**– For use in Zone 1 (as above).

# Advantages

1.

## Stop Weighing

Use ultrasonics to find the cylinder contents more quickly and easily

2.

## Accurate

to  $\pm 1.5$  mm  
to the true liquid level

3.

## Durable & Versatile

Lightweight and tests a wide range of fire suppressant agents

4.

## Easy to Use

suitable for all level of skill from technicians to chief engineers



5.

## Saves Time & Labour

compared to weighing  
2 people weighing = 15 mins  
1 person Portalevel® = 30 secs

6.

## Proven Technology

Based on the established 8th generation platform

7.

## Minimise Risk

to personnel (i.e. no back injuries by heavy lifting)

8.

## Improve Asset Safety

(protection continues, no need to shut down system)

## Benefits of ultrasonics vs. weighing

2 people  
15 minutes  
risk\*



1 person  
30 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)

# Verifiable Agents

Including but not limited to the common liquefied gaseous fire suppressant agents e.g. CO<sub>2</sub>, H<sub>2</sub>O, FM-200®, NOVEC™1230, old Halons such as 1301 and 1211, FE-13™, FE-25™, FE-36™, HFC-225 & 227ea.

## Choose Award Nominated Technology

FINALIST

### Safety at Sea

AWARDS 2019

IHS Markit

## ZONE 1

Suitable for  
ATEX Atmospheres



PORTALEVEL  
INTRINSICALLY SAFE

COLTRACO  
ULTRASONICS (since 1987)

2752

SPA OK

↓ CAL OFF

PLEASE READ OPERATING  
INSTRUCTIONS CAREFULLY  
BEFORE USE

www.coltraco.com

SHORTLISTED

### Best Safety Product of the Year (Fire-Fighting)

Shortlisted products :

- Coltraco Ultrasonics: Portalevel® Intrinsically Safe
- Rosenby Engineering: Fully automatic & direct firefighting in shipping containers
- Survitec Group: The Foam Buddy – a crew's friend when fighting deck fires
- Ultra Fog Ltd: Ultra Fog Nozzle Test Tool

## Stay Compliant With The Regulations

Portalevel® IS 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<sub>2</sub> quantity of more than 10% mass shall be refilled or replaced

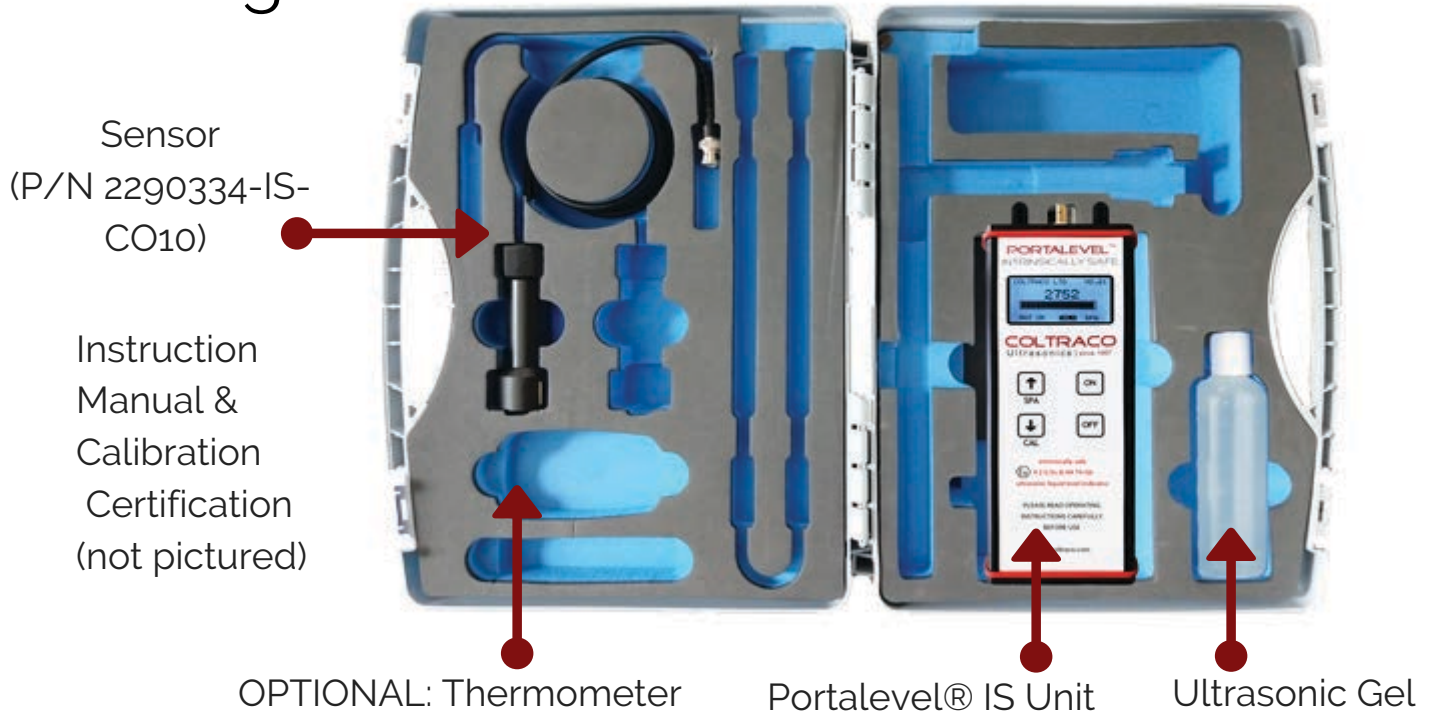
### ISO 14520 Regulation Chapter 6 6.2.4.2 & Annex F 5

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.

# Package



## How to Use - in 30 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
4. Move sensor down in steps of 5cm to the region with high readings & press CAL to get a full bar graph
5. Move sensor in steps of 5cm or smaller towards region with low readings until the bar graph disappears. This is your liquid level.



YouTube Channel Coltraco Ultrasonics:  
[www.youtube.com/user/ColtracoVideos](http://www.youtube.com/user/ColtracoVideos)

## OPTIONAL: Convert Level to Weight with Portasteele® CALCULATOR

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



YouTube Channel Coltraco Ultrasonics:  
[youtube.com/watch?v=k4OwBL4GDgY&t=4s](http://youtube.com/watch?v=k4OwBL4GDgY&t=4s)



# Technical Specifications

|                       |                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions            | Main unit: H 215 x W 82 x D 30mm                                                                                                                          |
| Weight                | Main Unit: 480 grams (with batteries)                                                                                                                     |
| Accuracy              | ±1.5mm (1/8 inch)                                                                                                                                         |
| Sensor                | TX/RX sensor 34 mm diameter head contained within a magnetised sensor applicator; connected by BNC connectors to 1m length co-ax cable                    |
| Power Supply          | 4 x AA L91 Energizer Batteries (only type permitted to use with this device)                                                                              |
| Display               | Membrane control operated, LCD back-lit display measuring H 28 x W 55 mm                                                                                  |
| ATEX Marking          |  II 2 G Ex ib IIA T4 Gb                                                |
| Operating Temperature | Ta = -20°C to +40°C (68°F to 104°F).                                                                                                                      |
| Certificates          | ATEX CAT 2 IECEx Zone 1. Coltraco is CE, UKAS ISO 9001 Registered & ISO 14001                                                                             |
| Warranty              | Main Unit: 3 Years Warranty<br>Sensor: 1 Year Warranty                                                                                                    |
| Package Contents      | 1 Main Unit<br>1 Sensor (P/N 2290334-IS-CO10)<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.®.

### CUSTOMER TESTIMONIALS

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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

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Coltraco quality is always the assurance for safety, we are proud of yours performance.

- Capt. Thum, RTBS Group, Singapore, 2018

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MADE IN UK | OPERATING IN 109 COUNTRIES | SUPPORTED LOCALLY

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