

COLTRACO

Ultrasonics | since 1987

8TH GENERATION

**PORTABLE
ULTRASONIC
LIQUID LEVEL
INDICATOR**

PORTALEVEL® MAX

BROCHURE

Introducing the Portalevel® MAX

The Portalevel MAX® is the eighth generation liquid level indicator by Coltraco Ultrasonics.

- **Type** – Portable Ultrasonic Liquid Level Indicator
- **Function** – Designed for servicing of fire suppression systems, such as CO₂, FM-200™, Novec™1230, FE-13™, FE-25, Halons and many more liquefied gaseous agents.
- **Part Number** – 2290334-COMX
- **Approvals:** UL, ABS & RINA
- **IMPA P/N:** 652776
- **Regulation Compliance:** NFPA, ISO 14520 & IMO SOLAS FSS



ACCURATE, RELIABLE & ROBUST

Meet the Portalevel® MAX



Advantages of the Portalevel® MAX

1.

Quick & easy
non-invasive level
measurement

2.

Accurate
to +/- 1.5 mm
to the true liquid level

3.

Long term reliability
& battery life, light weight,
compact & durable.

4.

Approvals
UL Listed, ABS TYPE,
RINA Class.Soc.



5.

Saves time & labour
compared to weighing
1 person vs. 2 people
30 seconds vs. 15 minutes

6.

Innovative & intuitive
technology to inspect
cylinders & tanks

7.

Minimise risk
to personnel (i.e. no back
injuries by heaving lifting)

8.

Improve asset safety
(i.e. keep fire system turned
on & cylinders in-situ)

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.

*Whilst weighing is the traditional method, the regulations allow liquid level testing. Risks include: personnel (bad backs from carrying heavy cylinders); to infrastructure (unprotected during testing because the fire system is turned off and to the fire system which is dismantled.)

Verifiable Agents

Including but not limited to the common liquefied gaseous fire suppressant agents e.g. CO₂, Aluminium CO₂, FM200/HFC-227EA, NOVEC 1230/FK-5-1-12, FE 25/FE 13, FE 36, Halon 1301/1211, CEA410, NAF S III, Refrigerants/R507 e.t.c.

If your application is not listed, please contact the sales team. For example we can measure Mayonnaise, Ammonia, Transformer Oil. via the Portalevel® MAX INDUSTRIAL.

Applications

Fire Safety & Servicing

Must have tool for inspecting fixed fire suppression systems.

Marine

Ideal for Ship Owners, Managers, Operators and Marine Surveyors.

Power Generation

Including conventional power plants, transmission & distribution sub-stations.

Oil & Gas

On 50% of the North Sea rigs, platforms and offshore support vessels.



Defence

Particularly Naval Forces and Coast Guards

Data Centres, Banks & Telecommunications

Protect from shut down. & loss of data.

Wind Turbines

Minimise fire risk in wind turbines and renewable energy substations.

Many Others

Get in touch to find out if your application is viable. e.g. high rise buildings, metal & mining.

Stay compliant with the regulations

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

NFPA Code 2001 7.11 & 7.13 and 12

ISO 14520 Regulation Chapter 6 6.2.4.2 & Annex F 5

Regulations for Gaseous Fire Extinguishing Systems and Room Integrity Testing methods.

IMO SOLAS & FSS Code Chapter 2.1.1.3

"Means shall be provided for the crew to safely check the quantity of the fire extinguishing medium in the containers."

CO₂ UK Marine Equipment Directive (MED) UK/EU legislation with US Coast Guard Mutual Recognition 7.3.2.6

"Means should be provided to verify the liquid level in all the cylinders, either by weighing the cylinders or by using a suitable liquid level detector."



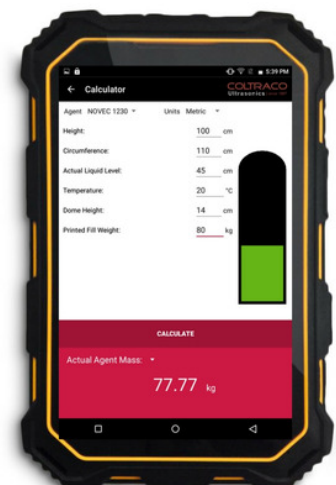
8 simple steps:

1. Wipe cylinder clean with a wet cloth & apply a strip of couplant to the cylinder
2. Switch the Portalevel® MAX on & connect your sensor
3. Place sensor at the top of the cylinder, on the flat surface below the neck
4. Move sensor down the cylinder in steps of 5cm / 2 inches & observe readings
5. Move sensor to the region with higher readings & press CAL (full bar graph)
6. Observing the bar graph, move sensor in steps of 5cm / 2 inches to the region with low readings. The bar graph will disappear when you pass the liquid level
7. Move sensor back in small steps of 2cm / 1 inch until the bar graph reappears
8. Continue moving the sensor back and forth around this region: the exact point between the bar graph disappearing and reappearing is your liquid level

Convert liquid level into weight of agent

OPTIONAL: Use Portalevel® MAX's perfect partner: Portasteele® CALCULATOR

1. Input your cylinder details: Agent, Height, Circumference, Actual Liquid Level (as found by Portalevel MAX above), Temperature, Dome Height, Printed Fill Weight
2. Calculate in under 30 seconds
3. Save your results and record in a spreadsheet which can be emailed to the key person in charge of fire safety.



Portalevel® MAX Technical Specifications

| | |
|-----------------------|---|
| Dimensions | Main unit: 160 x 82 x 30mm |
| Weight | 300 Grams |
| Accuracy | ±1.5mm (1/8 inch) |
| Sensor | TX/RX sensor 14 mm diameter head, contained within a magnetized sensor applicator; connected by BNC connectors to 1 m length co-ax cable |
| Power Supply | 1 x PP3 9V battery (battery life 10 hours) |
| Display | Membrane control operated, LCD back-lit display measuring 55 x 28 mm |
| Operating Temperature | -20°C to +70°C (68°F to 158°F) |
| Classifications | UL Approved RINA Classification Society Approved ABS Type Approved |
| Certificates | IP Rating 65 Coltraco is CE, UKAS ISO 9001 Registered.& ISO 14001 |
| Warranty | Main Unit: 3 Years Warranty Sensor: 1 Year Warranty |
| Package Contents | 1 main unit 1 dry sensor 1 Portatherm 1 ultrasonic gel tube 1 robust carrying case Calibration certificate 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

WWW.COLTRACO.COM

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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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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.

Coltraco®, Coltraco North America®, Portamarine®, Portalevel®, Permalevel®, Portagauge®, Portasonic®, Portamonitor™, Portasteele™, Portascanner®, Permascanner®, Safesite™, Safesite™ are trademarks or registered trademarks of Coltraco Limited, UK. DuPont™, FM-200®, FE-25™, FE-13™, and FE-241™ are trademarks or registered trademarks of E.I. du Pont de Nemours and Company and its affiliates. Novec™ 1230 is a trademark owned by 3M.

MADE IN UK | OPERATING IN 109 COUNTRIES | SUPPORTED LOCALLY

SENSORS.NL