



INTRODUCING PORTALEVEL® MAX MARINE PLUS

World's Leading Most Accurate Ultrasonic
Liquid Level Indicator with GAS/LIQUID display



INTRODUCING THE PORTALEVEL® MAX MARINE PLUS

Launching the latest model in our Portalevel® Range.

Our brand new **Portalevel® MAX MARINE PLUS** takes its place as world's leading, and most accurate contents monitor for marine liquified gaseous extinguishing systems.

Used and relied upon by shipping companies worldwide.

The new display screen on the **Portalevel® MAX MARINE PLUS** makes testing marine cylinders easy simply showing **LIQUID** or **GAS**



Intuitive Display

- **Type** – Portable Ultrasonic Liquid Level Indicator
- **Function** – Non-invasive liquid level detection of various marine fire suppression agents, such as; CO2, FM200™, NOVEC™ 1230, old Halon agents, FE-13™, FE-25™, NAF S III™ and all core Clean Agent systems.
- **Part Number** – 2290334-COMXPSM
- **Approvals** – UL Listed, RINA Accepted, ABS Type Approval.
- **IMPA P/N** – 652776
- **Standards** – UKCA, CE, Coltraco is ISO 9001 and ISO 14001 approved



THE NEW PORTALEVEL® MAX MARINE PLUS

The **Portalevel® MAX MARINE PLUS** offers significant improvements to our existing Portalevel® range with upgraded functionality. All within a smart, ergonomic, portable, durable hand-held enclosure.

GAS/LIQUID Screen Indication

- Intuitive user interface indicates GAS or LIQUID depending on where the sensor is placed on the cylinder.

Three Calibration Modes

- Carefully configured to cater for the different fire suppression cylinders / agents you measure.
- Ensures greater control and success rate when testing, especially on old, damaged or challenging cylinders.

Four Power Settings Increase Gain

- 4 settings ensure the returned ultrasound signal is sufficiently amplified to be easily detected by the transducer.
- Ensures the most accurate measurement possible.

Tactile Buttons

- Improved ergonomics give users greater feel and confidence when operating the **Portalevel® MAX MARINE PLUS**.



ADVANTAGES OF THE PORTALEVEL® MAX MARINE PLUS

QUICK, ACCURATE AND RELIABLE

Faster Measurement

5-25 seconds
compared to 15
minutes by weighing

Accurate

to +/-1.5mm of the true
liquid level

Three Calibration Modes

For accuracy on a wide
range of agents and
cylinders of varying
size/type and condition

Regulation Compliant

UL Listed, RINA Accepted,
ABS Type Approved



Portable

hand-held device
designed to be used by
1 person

Intuitive

Display/Operation

display for use with
minimal training

Minimise risk

eliminates heavy lifting
or accidental discharges
when weighing

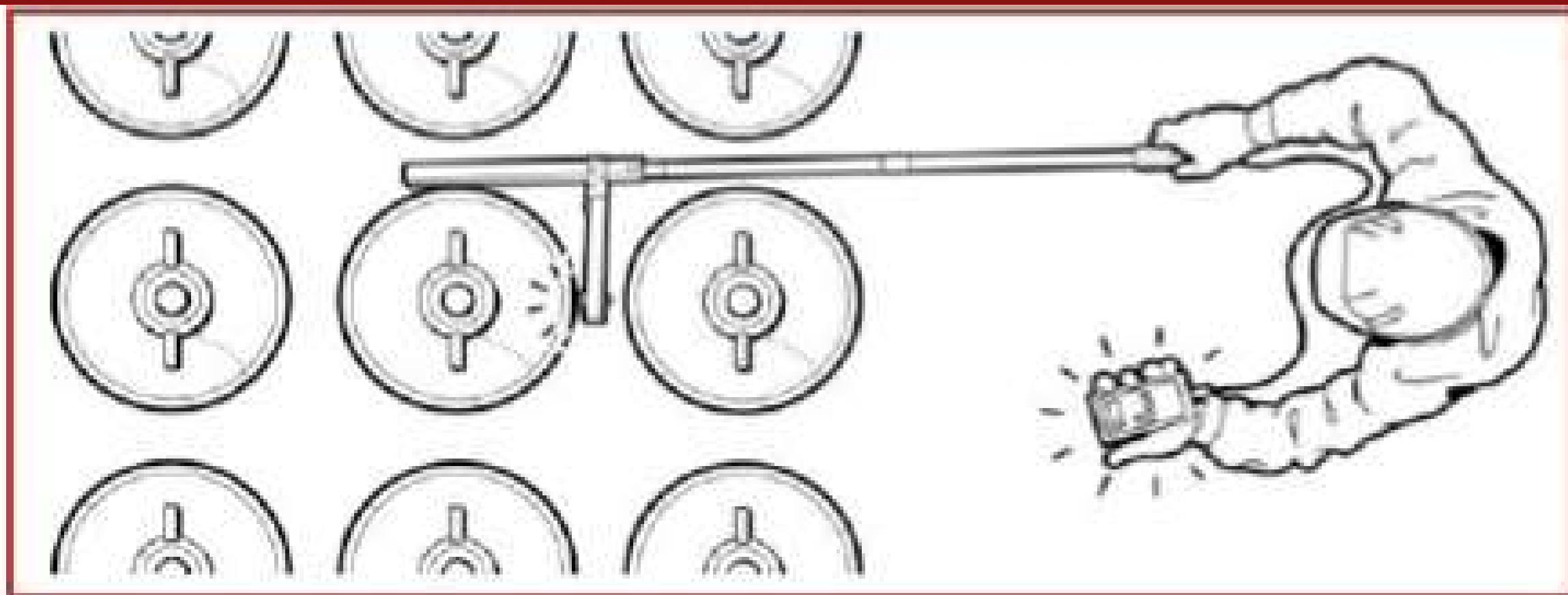
Non-Invasive

Extension rod for multi-
banked cylinders

HOW TO TEST IN 30 SECONDS: 4 SIMPLE STEPS

1. **Wipe** cylinder clean with a wet cloth & apply a strip of ultrasonic couplant to the cylinder
2. **Place** sensor at the top of the cylinder
3. **Observe** the bar graph, and move sensor in steps of 5cm / 2 inches down the cylinder. Calibrate at high readings.
4. **Read** the screen and observe the point that LIQUID changes to GAS.

The slimline extension rod, just 12mm wide, allows you to easily check between the cylinder banks without having to remove any tanks from the manifold. See diagram below.



STAY COMPLIANT WITH REGULATIONS



DELIVER BETTER FIRE SAFETY ONBOARD

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."

The crew are not qualified to dismantle the fire system to weigh the cylinders. So having a quick and easy to use ABS Type Approved ultrasonic liquid level indicator is the only accurate and efficient way of delivering better fire safety onboard, and protecting the crew.



CASE STUDY:

Using a Portalevel® saves 60% of the time required to manually dismantle and weigh a cylinder. A standard rate for weighing 200 cylinders would be \$2170. With the use of ultrasonic instrumentation, quotes are approximately USD 1085. **This saves USD900 per test.** In just 4 uses of the Portalevel®, the unit pays for itself and begins making you profit and cutting your cost. 5 inspections a month saves \$5425 a month or \$65100 a year.

PERFECT PARTNER TO PORTASTEEL® CALCULATOR



1. **Input** your cylinder details and liquid level (as found by Portalevel® MAX MARINE PLUS),
2. **Calculate** in under 30 seconds
3. **Save** your results in a spreadsheet and export to the manager/customer thereby enhancing service reports.



Quick Calculate

Calculated Agent Mass

Cylinder Type: Welded | Agent: FM200® | Units: Metric

Volume

Nominal volume

Upper Seam Height
Height from floor to bottom of upper seam

Upper Dome Height
Upper weld seam to cylinder neck

Circumference
Measurement around the cylinder

Liquid Level Height
Height from floor to Portalevel® measurement

Temperature
Temperature of cylinder

Lower Seam Height
Floor to lower weld seam above the skirt

Wall Thickness
Measured using Portagauge® or estimate

Calculate | Cancel

Test Cylinder

Cylinder Type: Seamless | Agent: CO2 | Height: 136.00 cm

45.31 kg
NOT SAVED

Serial Number: SN12347
Identifier for cylinder (optional)

Printed Fill Mass: 45 kg
Used for statistics (optional)

Cancel | Save Record

Saved Records

Tap column header to sort

Serial Number	Date & Time	Record	Mass Diff.
SN12346	07 Aug 20 14:30	110.00 cm → 45.31 kg	45.00 kg 0.69 %
SN12345	07 Aug 20 14:14	105.00 cm → 43.85 kg	45.00 kg -2.56 %

ABOUT COLTRACO ULTRASONICS



Headquartered in **London**

Operating across a diverse array of **25 Market Sectors**

- Shipping
- Safety Engineering
- Process Control
- Mining
- Offshore Energy
- Renewables
- Healthcare
- Built Environment
- Naval
- Space



Our organisation comprises:

- Our **Company**
- Our **Laboratory**, co-located with the Centre for Advanced Instrumentation at Durham University
- Our **Research Organisations**, the Durham Institute of Research, Development & Invention (DIRDI)
- Our **Centre for Underwater Acoustic Analysis** (CUAA)

"To see the sounds that others cannot hear"

"To measure the hitherto unmeasurable"



Engaged in Research, Design, Development, Manufacture, Integration & Sustainment of high-exporting advanced technology systems, products and services.

We monitor and measure an array of specialised environments to deliver the Safesite™ on land and the Safeship™ at sea.

BY BEING SCIENCE-LED:



We identify and nurture brilliant minds, creating a unique research environment at Durham University, which is a globally outstanding centre of teaching and research excellence.



In our research at DIRDI, we undertake fundamental research into the physical laws of the universe, alongside applied research in Physics, Mathematics, Engineering and Computer Science in acoustics, electromagnetism and information engineering.



It is this research and manufacturing excellence, and our enduring commitment to the sustainment of our technologies in the field, that makes Coltraco Ultrasonics the partner of choice for customers and distributors in 120 countries.



We deliver genuine value for our customers through our scientific and institutional values, and the global quality of our commercial and technical services.

OUR CUSTOMER CARE COMMITMENT



Global Support

You can receive worldwide support through our network of Global Partners, Distributors, and Service Centres (ODA's).

More than 150 Exclusive local distributors, in over 80 countries.

Service Stations worldwide including:

- Europe - UK, Turkey
- Middle East - UAE
- Asia - India, Singapore
- Australia
- USA - Florida
- Central America - Trinidad
- South America - Brazil



With every Coltraco purchase you receive FREE Lifetime Technical Support in addition to your 3 year warranty on the main unit and 1 year on the sensor.



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