



Introducing **PORTALEVEL® MAX NIPPON**

Portable ultrasonic LIQUID LEVEL
INDICATOR

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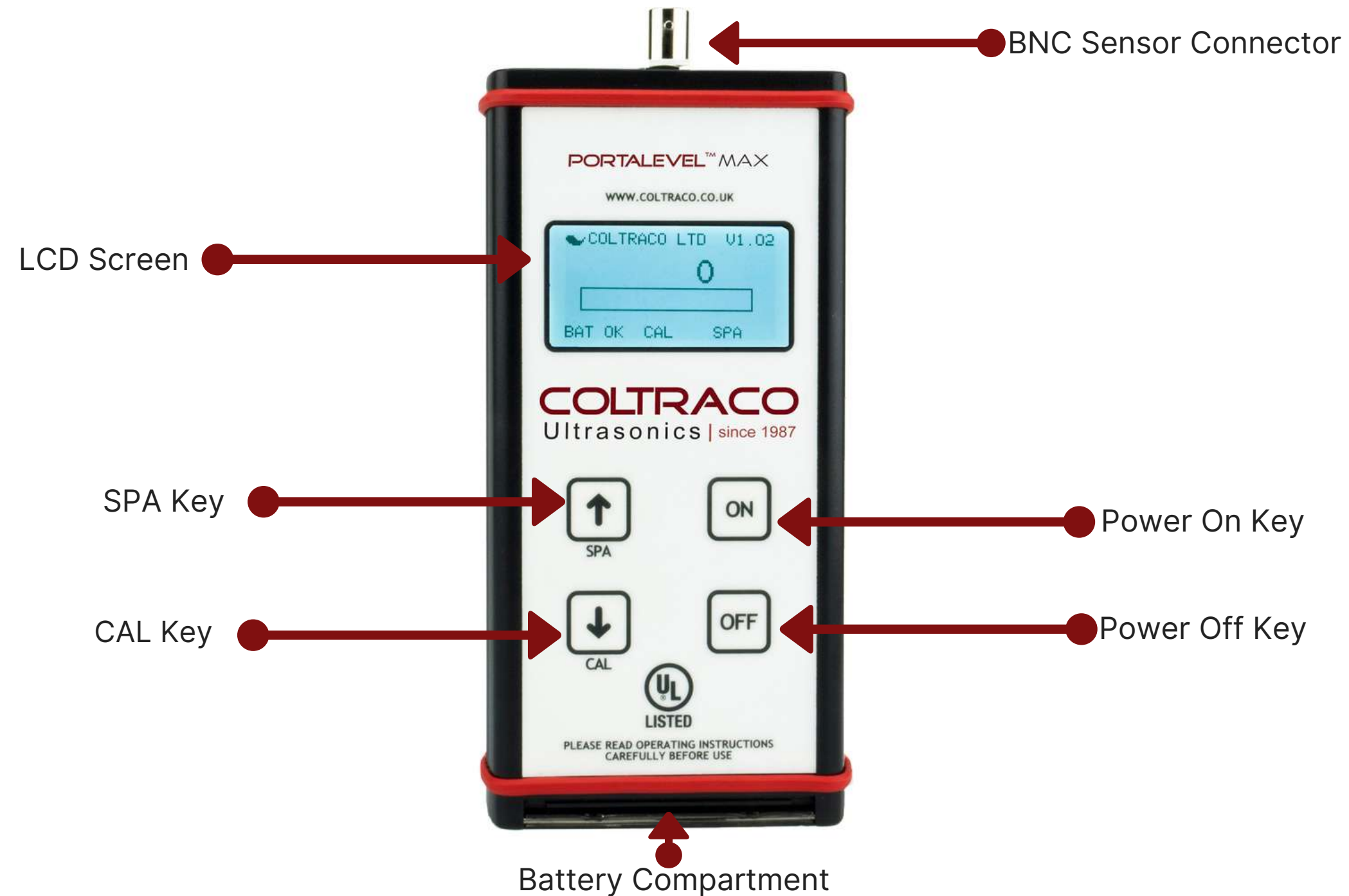
The Portalevel MAX® NIPPON is the eighth generation liquid level indicator by Coltraco Ultrasonics, designed specifically for Japanese cylinders.

- **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:** FESC, UL, ABS & RINA
- **IMPA P/N:** 652776
- **Regulation Compliance:** NFPA, ISO 14520 & IMO SOLAS FSS



ACCURATE, RELIABLE & ROBUST

Meet the Portalevel® MAX NIPPON



Advantages of Portalevel® MAX NIPPON

1.

Quick & easy
non-invasive level
measurement

2.

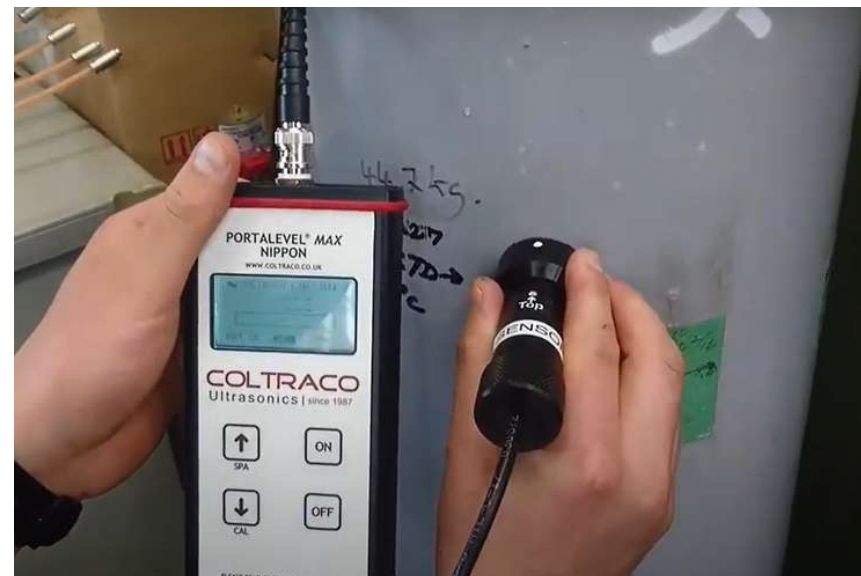
Accurate
to ± 1.5 mm
to the true liquid level

3.

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

4.

Approvals
UL Listed, ABS TYPE,
FESC, 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
(ie. keep fire system
turned on & cylinders in-
situ)



Designed for the Japanese Market

We work closely with Japanese Fire Suppression Manufacturers. It was found that a solution was needed to test the thicker, more power absorbing Japanese cylinders. These cylinders demand a specially tailored calibration capability and increased power output.

The Portalevel® MAX platform was requested owing to the speed, ease and accuracy of its use but with a variety of performance enhancements, unique to the Japanese market. As a result of this, a specially adapted Portalevel® MAX NIPPON unit was created, allowing customers to take advantage of the 8th Generation ultrasonic level technology, optimised for specific tailored local requirements. This offers customers the usability of our flagship market leading Portalevel® technology even on the more challenging applications.

FESC Approval



The Fire Equipment and Safety Centre (FESC) of Japan tested and approved Portalevel® MAX NIPPON with FESC Product Certification for use in Japan on CO2, FM-200®, NOVEC™1230 and other liquefied clean agent extinguishing systems.

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.



Applications

Oil & Gas

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

Marine

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

Defence

Particularly Naval Forces and Coast Guards

Protecting Crew, Cargo and Vessel

IDEAL: shipowner, shipmanager, marine surveyor, classification society surveyor, marine servicing company, offshore oil and gas fire safety manager, offshore wind turbine fire safety manager, naval safety & survivability or naval damage control.

CHEAPER: save 50% on each inspection. “For 220 cylinders of a cape size vessel, Weighing by scale would be USD800 (¥84260) or so more than using liquid level indicator in marine market” – Quoted from a Marine Surveyor.

QUICKER: test each cylinder in just 30 seconds without needing to weigh cylinders. Hang around neck for working in the cramped conditions and easily inspect 2, 3 or 4 rows of multi-banked cylinders with an extension rod.

REGULATION COMPLIANCE IMO SOLAS FSS Code Chapter 5 2.1.1.3: *"Means shall be provided for the crew to safely check the quantity of the fire-extinguishing medium in the containers. It shall not be necessary to move the containers completely from their fixing position for this purpose. For carbon dioxide systems, hanging bars for a weighing device above each bottle row, or other means shall be provided. For other types of extinguishing media, suitable surface indicators may be used."*

Why fire safety is important *[3 minute read]*

" A S H I P I S H E R O W N F I R E B R I G A D E A T S E A "

According to Lloyds List, almost 10% of all total losses at sea in the last decade were caused by a fire on board. Safety isn't something you have, it's something you do," said NTSB Chairman Robert Sumwalt. When lives are at stake, a lack of fire systems and maintenance of them is unacceptable.

What protects passengers from fire? A ship's gaseous extinguishing system typically comprises between 200 and 600 cylinders each containing 45KG of CO2 under high 720 psi/ 49 bar pressure. (Other suppressant clean agents such as FM-200® and Novec™1230 are becoming more widely used.)

How are we failing to protect passengers with these gaseous extinguishing systems? Because gaseous extinguishing systems are highly pressurised, the risk of leaking and discharging is accepted as part of their use and this is shown in the regulations that demand their upkeep. 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." Some marine service companies estimate that 20% of a ship's CO2 cylinders have discharged or partially leaked their contents at some point in their lifetime also know that occasionally marine "servicing companies" unintentionally leave it disabled.

What is the solution? The crew must take responsibility for its own fire protection. Using an ultrasonic liquid level indicator is the only way that the crew can safely test their CO2 without disturbing them.

We designed the Portalevel® MAX NIPPON ultrasonic liquid level indicator, as radioactive units were being phased out. If shipping companies implemented the IMO SOLAS FSS codes by testing safely and quickly (just 30 seconds per cylinder) by using liquid level indicators and marine servicing companies were able to do their work without allowing for time pressures, then vessels would be far safer.

How to use a Portalevel® MAX NIPPON

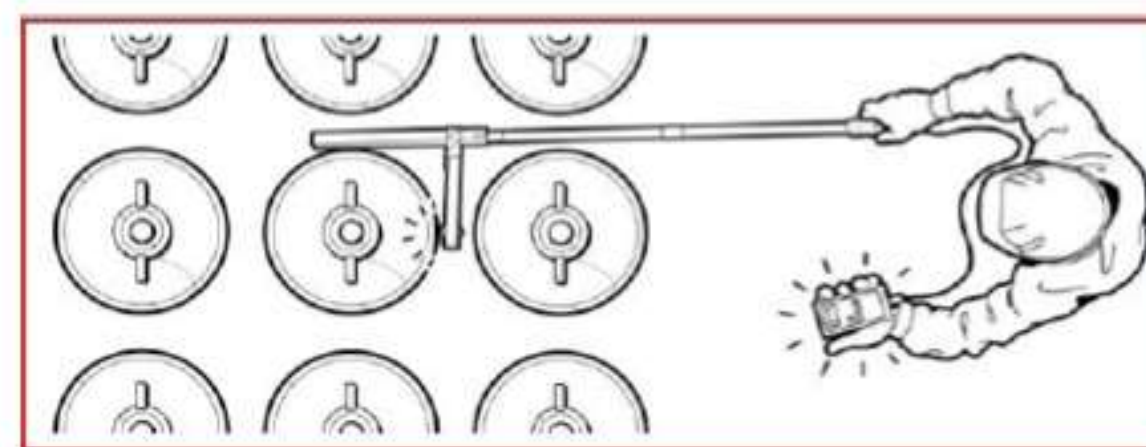
8 simple steps:

1. Wipe cylinder clean with a wet cloth & apply a strip of couplant to the cylinder
2. Switch the Portalevel® MAX NIPPON 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



Supplied with Extension Rod

The Portalevel MAX NIPPON is supplied with an Extension Rod for easy operation on multi-banked cylinders



Example of extension rod being used



PERFECT PARTNER TO THE PORTASTEEL CALCULATOR

- 1. **Input** your cylinder details: Agent, Height, Circumference, Liquid Level (as found by Portalevel MAX), 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.



It's now available in Japanese



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

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 %

CALL +44 207 629 8475 | SALES@COLTRACO.CO.UK | WWW.COLTRACO.COM/PORTALEVEL-MAX-NIPPON/

CUSTOMER CARE COMMITMENT

Technical Support provided for the unit's lifetime. Every unit provided by Coltraco comes with a 3 year warranty supporting the manufacturing quality of the main unit and 1 year on sensor.

OPTIONAL PORTACARE® after sales package.

We have local partners to support you worldwide through our global network of Partners, Distributors and ODA (Organisational Delegated Authorities).

ODAS are Service Centres which provide regional support for caliibration in UK, France, Greece, UAE, India, Singapore and USA, Brazil, Trinidad, et al.

Coltraco Ultrasonics

★REVIEWS.io

“The instruments acquired by Benguella Enterises (Pty) Ltd has enabled our technicians to work faster delivering accurate undisputed test results. The staff at Coltraco has been truly most supportive and professional during the years of dealing with them. We can vouch for a...”

★★★★★ Verified Reviewer

Coltraco Ultrasonics

★REVIEWS.io

“We have been working with Coltraco since 2009 and we are always happy to continue working togheter. Good customer service with prompt answer from the Coltraco's team. Right time of delivery and material always received in excellent...”

★★★★★ Verified Reviewer

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