



COLTRACO
Ultrasonics | since 1987

Introducing **PORTATANK®**

Handheld Ultrasonic Industrial
Tank Liquid Level Indicator



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Portatank® is the ideal solution for non-invasively identifying levels of water and clean liquids in large industrial tanks.

Part Number – 3141184-TANK

An innovative handheld tool to accurately identify the level of contents in large containers between 0.5-15 metre diameter.



Quick Testing

Easy to use, instant liquid level detection with very clear LED results for liquid indication

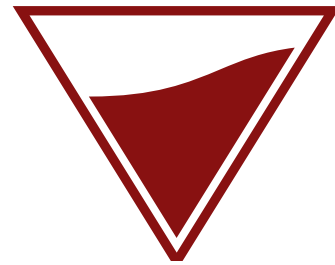
Versatile

Applicable for a wide range of tanks & liquids

Non-Invasive

Testing through the outer wall (no opening required)

ADVANTAGES VS. OTHER LEVEL METHODS



ACCURATE

To +/-10mm with very clear LIQUID / NO LIQUID LED results



NO RISK:

Measures levels of fluids, particularly hazardous liquids, where the tank cannot be opened for safety reasons and an internal fixed level indicator cannot be installed



SAFE

Non-invasive, non-intrusive – suitable for testing hazardous liquids



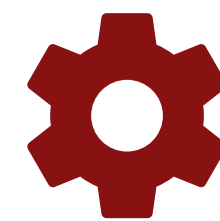
NO DOWNTIME

liquid level measurement can be taken when the tank systems are “live”



FLEXIBLE

suitable for a wide range of tanks and liquids, no installation time or costs required



COMPLIMENTARY

can work alongside fixed level indicators to verify the accuracy of the measurements

APPLICATIONS

Quickly, safely and easily identify the liquid level in tanks

- Tank Diameter Range: 0.5 metres – 15 metres
- Tank Wall Material: Most common types such as steel, plastic, aluminium etc.
- Liquid types: Most standard industrial liquids. E.g. water and oils

Fire Safety
Engineering

Food &
Beverage
Processing

Pharmaceuticals

Energy and
Power
Generation



Water
Treatment
Facilities

Chemicals

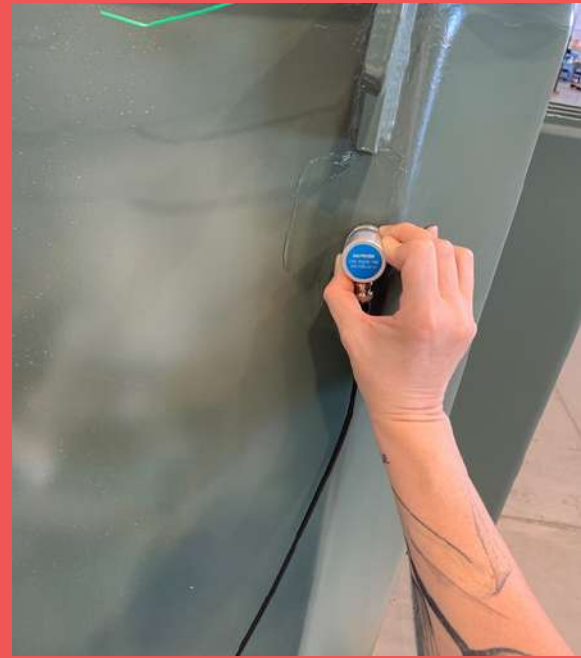
Petrochemicals

Transformer Oil
Level (pictured
right)



CASE STUDY

Power Station in USA using Portatank to test Transformer Oil Levels (pictured)



3 REASONS TO BUY PORTATANK®

For tanks that already have an in-built level system

our portable non-invasive technology allows operators to verify liquid levels in tanks with existing in-built level indicators, as some of these can be from an old technology that can be inaccurate such as float level or sight-glass methods

For tanks without any form of liquid level indication

the Portatank® can detect the liquid levels non-invasively through the outer walls of the tank.

Portatank® requires no installation for either application





Clear results

The red LED indicator will light up when liquid level is encountered. Clear LIQUID / NO LIQUID.

Working principle

Ultrasonic pulse-echo measurement. An ultrasonic signal is transmitted through the walls, across the tank's contents and its reflection is measured to determine the presence or absence of liquid.

Troubleshooting made easy

By connecting the included oscilloscope.

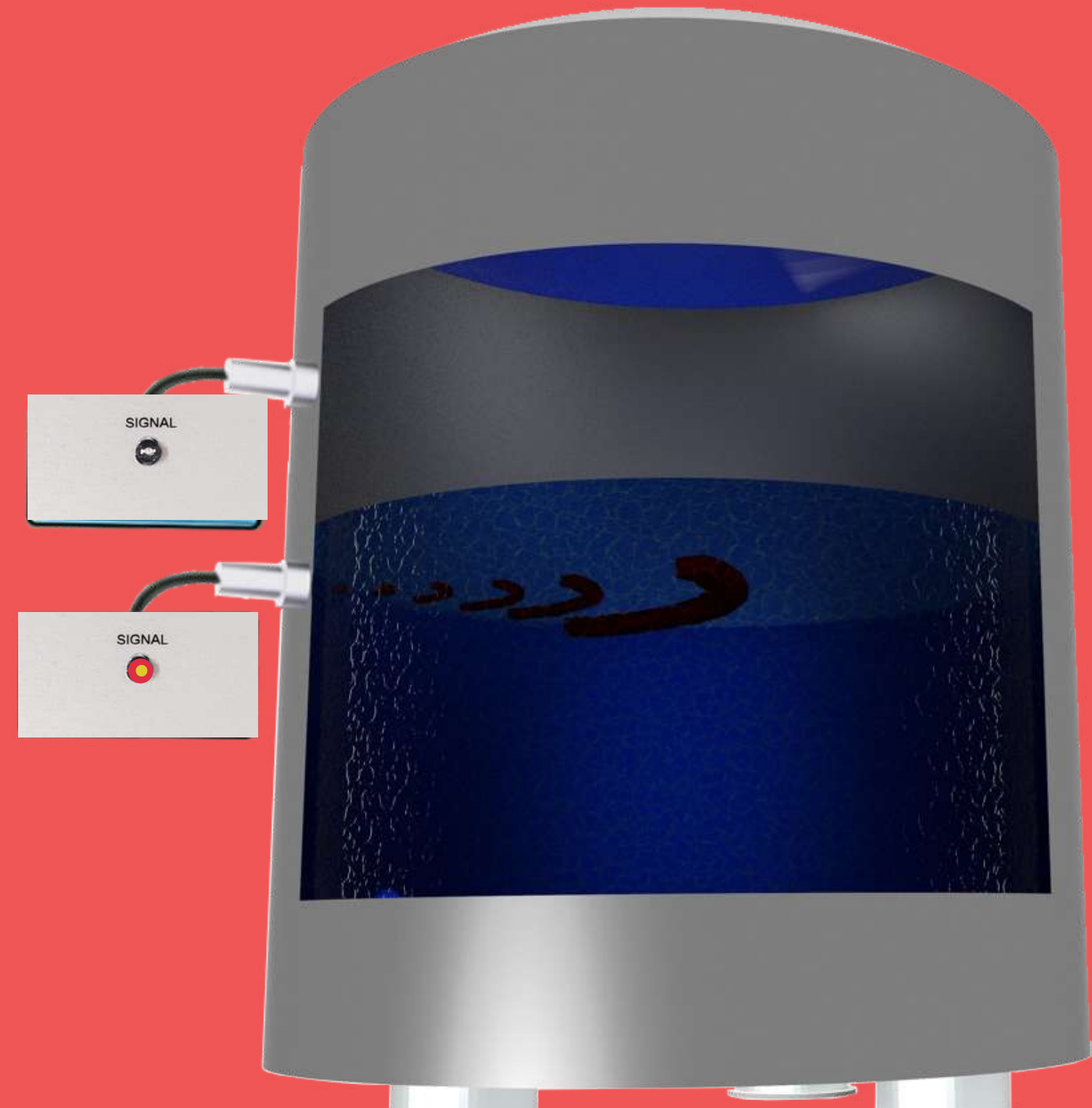
HOW TO TEST: 3 SIMPLE STEPS

After unit has been set up for the application.

1. Apply ultrasonic gel to the tank wall, connect the sensor to the unit and turn the unit on

2. Place the sensor on the tank wall starting from the upper section, then move the sensor down in steps.

3. The red LED indicator will light up when liquid level is encountered



ADVANCED TROUBLESHOOTING

WHY USE THE OSCILLOSCOPE

1. Allows you to SEE the ultrasound signal travelling across the tank
2. Helps you SELECT the optimum parameters for liquid level detection specific to your tank, enhances accuracy and reliability
3. Assists you in UNDERSTANDING the underlying issues associated with any unsuccessful measurement

WHEN IS THE OSCILLOSCOPE REQUIRED

1. Setting up the Portatank® with your application for the first time:
To select the optimum parameters for your tank for enhanced accuracy and reliability
2. Investigate the underlying issues if an unsuccessful measurement is made: To view the ultrasound signal and identify the appropriate solution

HANDHELD OSCILLOSCOPE SPECIFICATION

Screen size: 2.4 inch

Bandwidth: 30 MHz

Sampling rate: 200 MS/s

Time range: 50S – 15nS

Standby time: 3 hours

Vertical sensitivity: 50mV – 100V

Trigger mode: Single / Normal / Auto

Maximum test voltage: 1X = 60V, 10X = 800V

Voltage precision: +/- 2%

Battery: 1200 mAh, rechargeable via micro USB



DISCLAIMER: THE OSCILLOSCOPE IS NOT REQUIRED DURING NORMAL OPERATION OF THE PORTATANK - ONCE THE UNIT IS SET UP TO WORK FOR YOUR APPLICATION.

TECHNICAL SPECIFICATIONS

DIMENSIONS	Main Unit: (H)168mm x(W)80mm x(D)45mm Main Unit: 520 grams (with batteries)
ACCURACY	+/- 10mm or +/-5mm (sensor dependent)
VERIFIABLE AGENTS	Water and most clean liquids (get in touch for more details)
SENSOR OPTIONS	200 kHz, 500 kHz (included as standard), 1 MHz, 2 MHz connected by BNC connector
PACKAGE CONTENTS	1 Main Unit 1 Sensor (500kHz standard+ 1 Handheld Oscilloscope (+ BNC cable & Micro USB Cable) 1 Robust Carrying Case 1 Calibration Certificate 1 Operating Instructions 1 Ultrasonic Gel

OPERATING TEMPERATURE	-20°C to +70°C (68°F to 158°F)
DISPLAY	Visual LED indication
WARRANTY	Main Unit: 3 Years Warranty Sensor: 1 Year Warranty
POWER	4 x 1.5V AA batteries
CERTIFICATE	Manufactured in UK with ISO 9001:2015 registered company

PACKAGE

Portatank® is delivered in a package with everything required to carry out testing.

Also included but not pictured:

Carrying Case

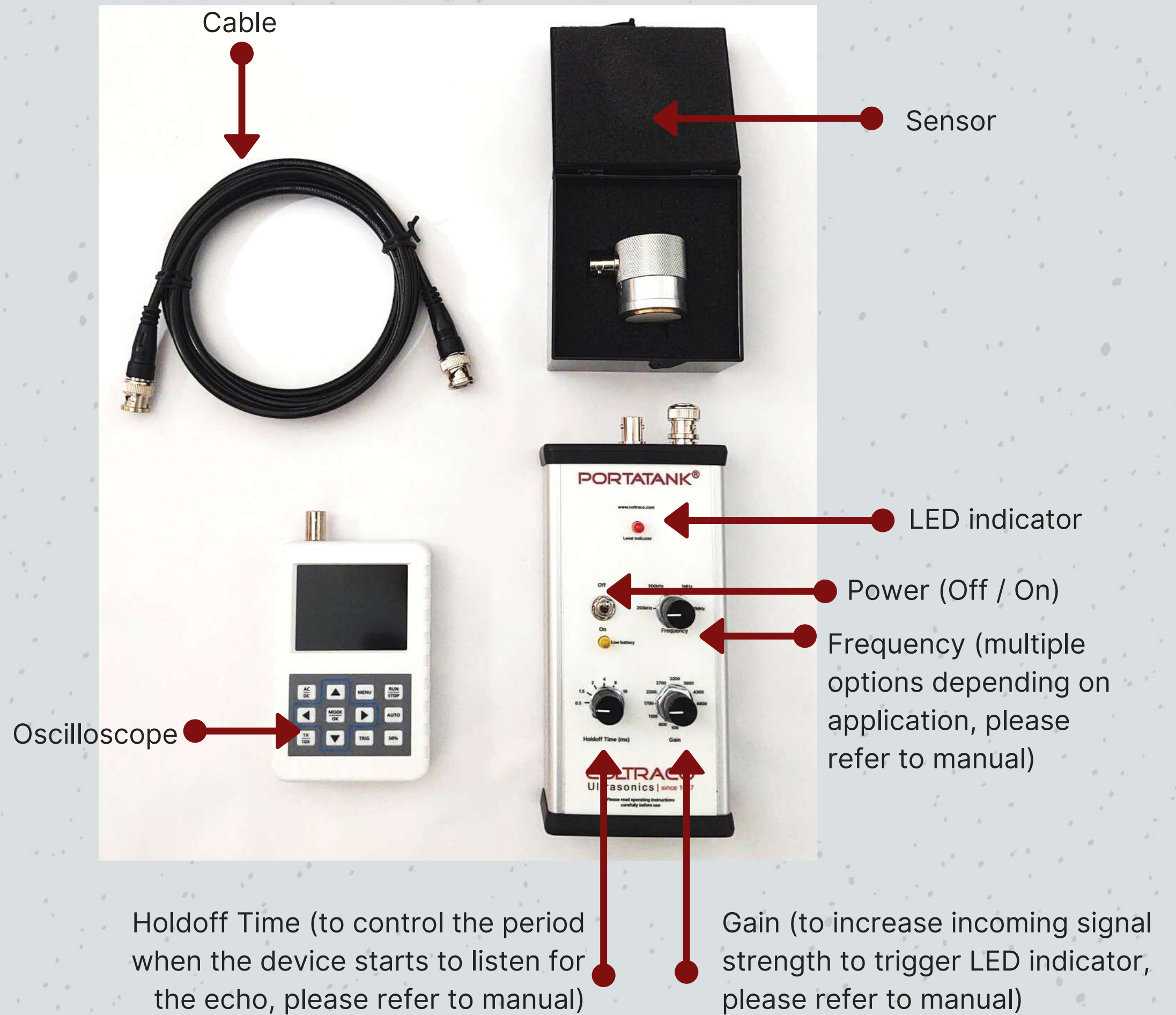
Instruction Manual

Calibration Certificate

Ultrasonic Gel

BNC cable (for connecting oscilloscope)

Micro USB cable (for charging oscilloscope)



CUSTOMER CARE COMMITMENT

Technical Support provided free of charge 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.

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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