



COLTRACO
Ultrasonics | since 1987

Introducing **PORTASCANNER® WATERTIGHT**

Handheld Ultrasonic Watertight Integrity Tester for hatchcovers, doors and cable transits



CALL +44 207 629 8475 | SALES@COLTRACO.CO.UK | COLTRACO.COM/PRODUCT/PORTASCANNER-WATERTIGHT/

Portascanner® WATERTIGHT is the world-leading fully ABS Type Approved & RINA Accepted watertight Integrity Tester for inspecting watertight and weathertight seals.

Part Number – 509004-0311

NSN – 6625-99-257-8336

IMPA – 652778

Function: To test the integrity of sealed compartments; watertight/weathertight doors, hatch-covers and multiple cable transits with decibel and linear readings



CUSTOMER TESTIMONIAL

"The fleet was equipped with a unit per Bulk Carrier and the units are and working well, providing the confidence that there will be no problems with water damage claims."



WIDE ARRAY OF APPLICATIONS

SHIPPING/MARINE



DEFENCE/NAVAL



OIL & GAS



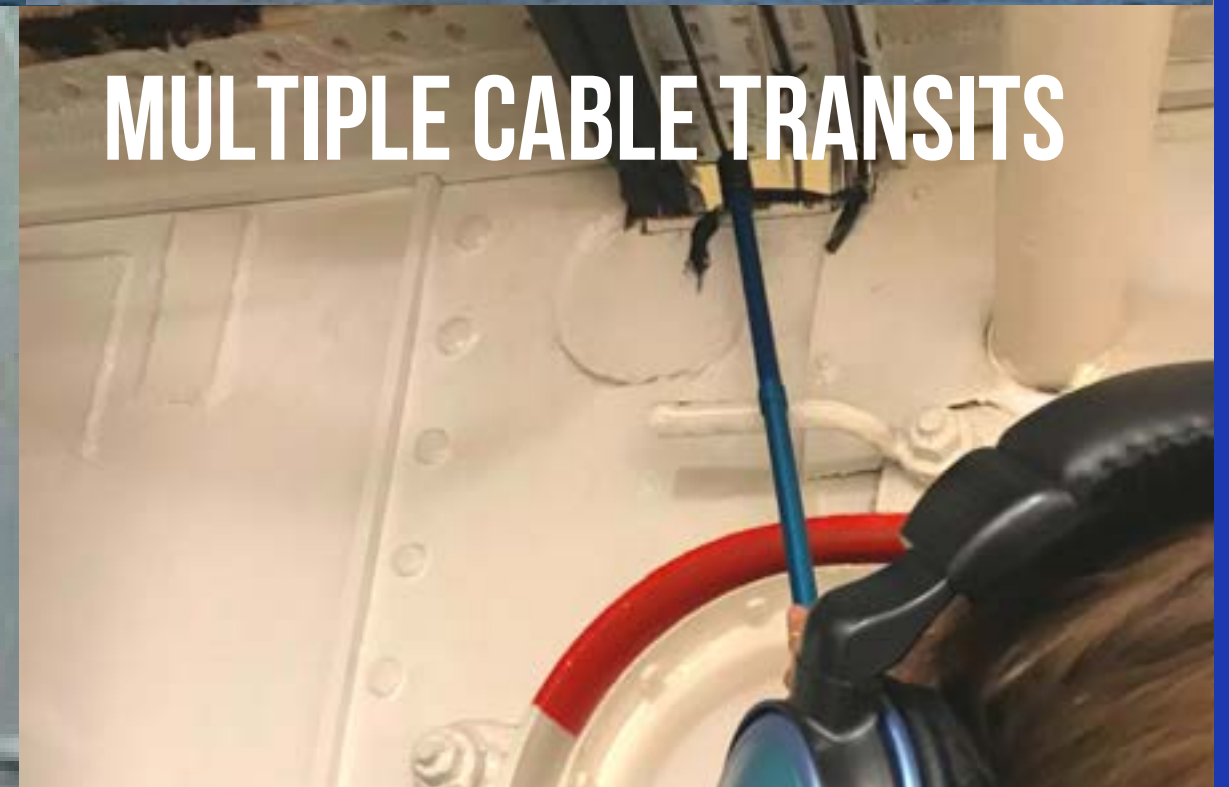
HATCH-COVERS



**WATERTIGHT/
WEATHERTIGHT DOORS**



MULTIPLE CABLE TRANSITS



KEY BENEFITS OF THE PORTASCANNER® WATERTIGHT

UNBEATEN ACCURACY

Most mathematically advanced unit in the world, pinpoints leaks to 0.06mm (+/- 0.02mm) with dB output

EASY TO USE

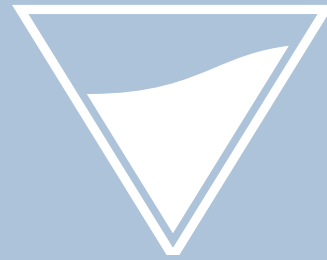
Suitable for any operator with free training; no need for time consuming, expensive courses

POWERFUL & MULTI-USE

Applications range from hatch-covers, doors and MCTs

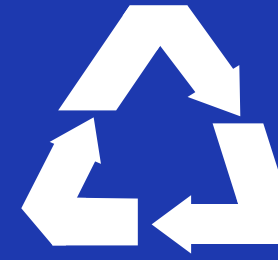


ADVANTAGES VS. OTHER WATERTIGHT TESTING METHODS



PRECISE

Detect leaks as small as 0.06mm and see your readings in decibel and linear



GREEN Technology

A clean method of testing that does not violate any environmental codes, unlike hose testing



REDUCE RISK

Non-invasive, & non-intrusive technology. Pinpoint the exact leak locations and their extent in order to perform corrective actions to reduce risk of water ingress



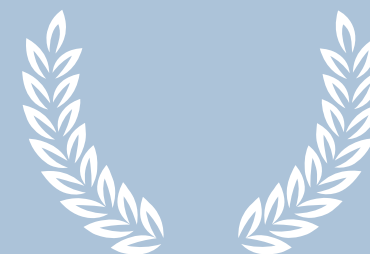
COMPLIANT

Readings provided in dB for regulation compliance or mathematical linear for ease of use



APPROVALS

Full ABS Type Approved & RINA Class Accepted



AWARD FINALIST

IHS Markit Safety Product of the Year nominated.

HOW TO TEST: 3 SIMPLE STEPS

Figure 1. Watertight Compartment

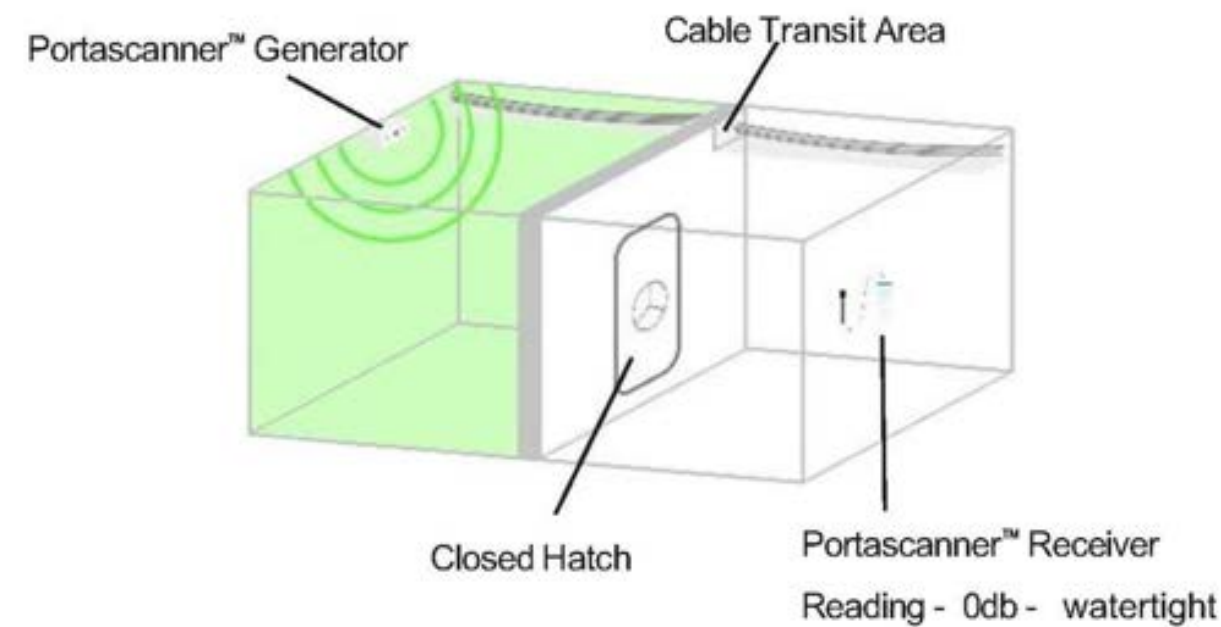
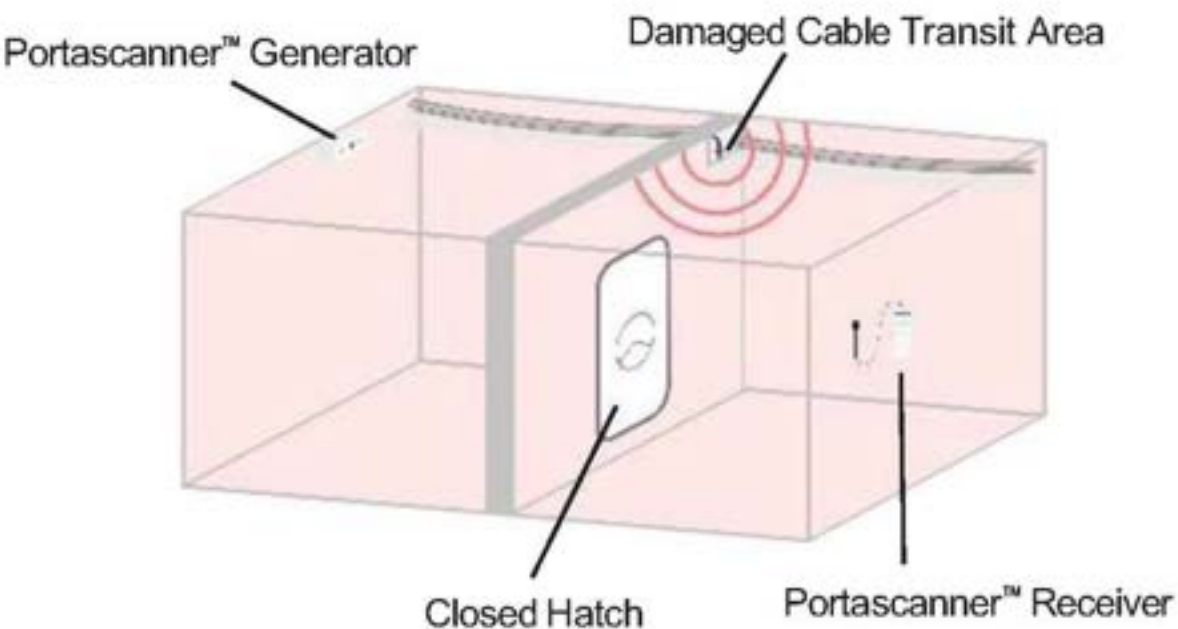


Figure 2. Non-compliant Compartment



1. **Connect** Rod and Headphones to Receiver. Switch Generator "on" and place into the compartment to be tested. Obtain Open Hatch Value OHV (for hatch cover).
2. **Close** compartment. Point the sensor to the area of interest.
3. **Move** sensor around the seal. Where signal is strongest, that is your leak site.

RESULTS

OPTION 1: decibel (dB)

- 0 dB = watertight seal
- 1 dB - 26 dB = weathertight seal
- 27+ dB = weak seal compression
- high values = full leak site

OPTION 2: Linear/ numerical

- 0 - 5 = watertight seal
- 6 - 100 = weathertight seal
- 101+ = weak seal compression
- For hatch cover: above 10% OHV = leak site
- high values = full leak site



REGULATION COMPLIANCE

There are multiple regulations pertaining to watertight/weathertight integrity inspections which is made easier with Portascanner:

SOLAS Reg II-1/11.1

"Where a hose test is not practicable [sic] it may be replaced by [sic] an ultrasonic leak test or an equivalent test. In any case a thorough inspection of the watertight bulkheads shall be carried out."

IMO SOLAS Reg II-1/21.3

"The watertight doors and all mechanisms and indicators connected therewith[sic] shall be periodically inspected at sea at least once a week."

IMO SOLAS Reg II-1/13-1.1

"Where penetrations of watertight bulkheads and internal decks are necessary for access, piping, ventilation, electrical cables, etc., arrangements are to be made to maintain the watertight integrity."

IACS Rules - Requirements for Ultrasonic Watertight Integrity Service Providers

"2. Firms engaged in tightness testing of closing appliances such as hatches, doors etc. with ultrasonic equipment."



TECHNICAL SPECIFICATIONS

DIMENSIONS Main Unit: (H)215mm x(W)82 x(D)30mm
Main Unit: 420 grams

ACCURACY 0.06mm +/- 0.02mm

ROD 310mm x 25mm Diameter, Connected by BNC connector to 1m length co-ax cable

PACKAGE CONTENTS

- 1 Portascanner® WATERTIGHT
- 1 Generator
- 1 Receiver
- 1 Headphones
- 1 Hard Wearing Carrying Case
- Calibration Certificate

RECEIVER READINGS Visual (via LCD display and graph) and audible (via external headphones)
Results shown in decibel (dB) and linear

OPERATING TEMPERATURE -20°C to +70°C (68°F to 158°F)

DISPLAY Membrane control operated, LCD back-lit Display measuring 55 x 28 mm

POWER
Generator : 2 x PP3 9V battery (battery life 12 hours continuous use)
Receiver: 1 x PP3 9V battery with low battery indication (battery life 10 hours)

WARRANTY Main Unit: 3 Years Warranty
Rod: 1 Year Warranty

APPROVALS Full ABS Type Approval
Classification Society Accepted- RINA
CE
ExVeritas ISO 9001

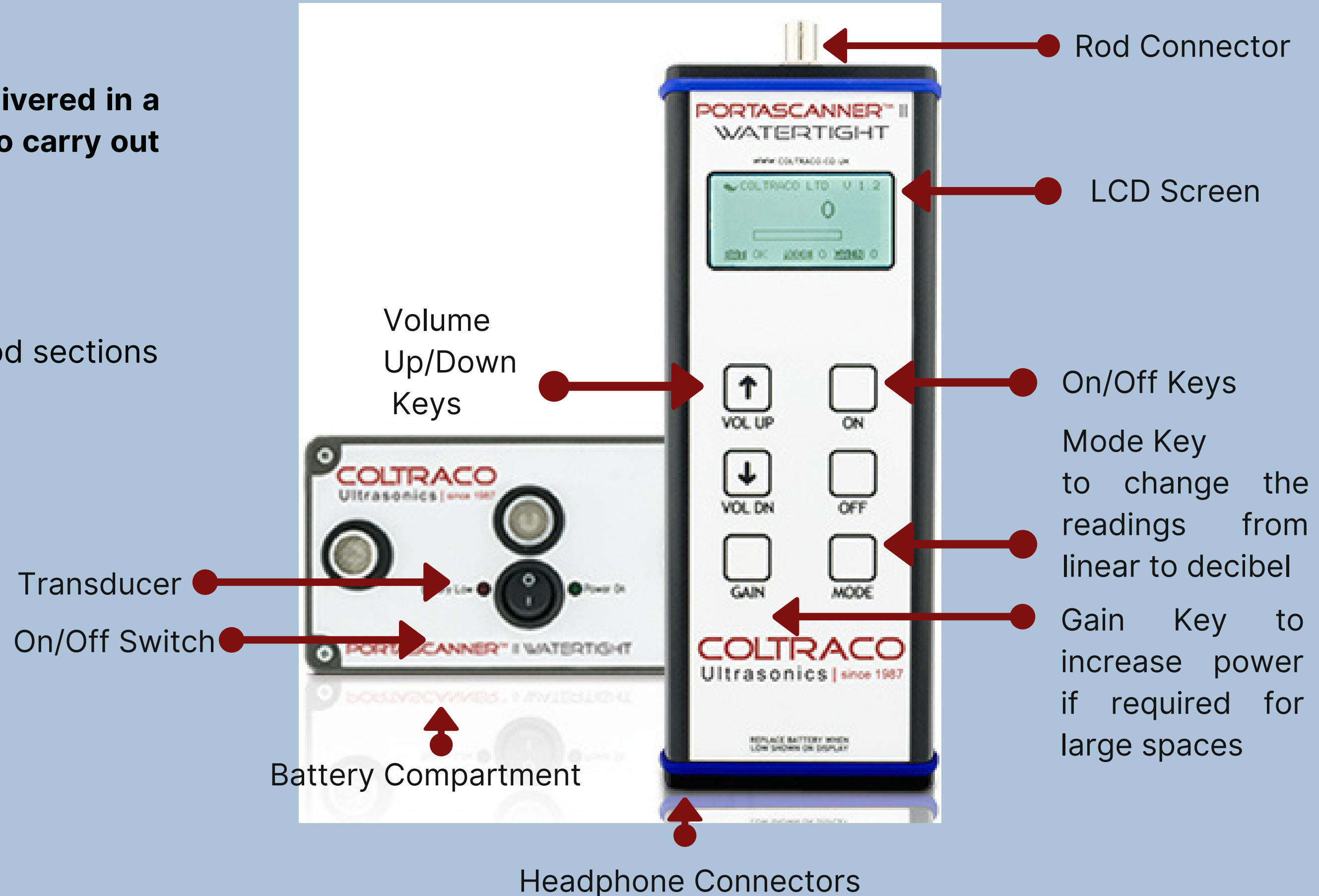
CERTIFICATE Manufactured in UK with ISO 9001:2015 registered company

PACKAGE

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

Also included but not pictured:

- Sensor Wand with Aluminium Rod sections
- Headphones
- Carrying Case
- User Manual
- Calibration Certificate



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 110 Exclusive local distributors worldwide.

10 ODAs:

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



*Accurate as of May 2021

When purchasing a Coltraco product you receive FREE Lifetime Technical Support in addition to a 3 year warranty on the main unit and 1 year on the sensor.



Coltraco®, Coltraco North America®, Portamarine®, Portalevel®, Permalevel®, Portagauge®, Portasonic®, Portamonitor®, Portasteele®, Portascanner®, Permascanner®, Safesite®, Safeship® 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.

