



**COLTRACO**  
Ultrasonics | since 1987

# Introducing **PORTASCANNER® WATERTIGHT**

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



**Portascanner® WATERTIGHT** is the world-leading fully ABS Type Approved & RINA Accepted watertight Integrity Tester for inspecting watertight and weathertight seals on ships and marine structures such as warships and offshore oil & gas platforms.

**Part Number** – 509004-0311

**NATO Stock Number** – 6625-99-257-8336

**IMPA** – 652778

**Function:** To test the integrity of sealed compartments; watertight/weathertight doors, hatch-covers and multiple cable transit areas with unique dual decibel and linear readings accurate to 0.06mm +/- 0.02mm.



## CUSTOMER TESTIMONIAL

*"The fleet was equipped with a unit per Bulk Carrier and the units are 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  
TRANSIT AREAS



# 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

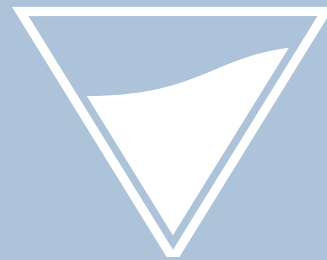
Suitable for any operator with free training; no need for time consuming, expensive courses

## POWERFUL & MULTI-USE

Applications range from hatch-covers, watertight doors and multiple cable transit areas

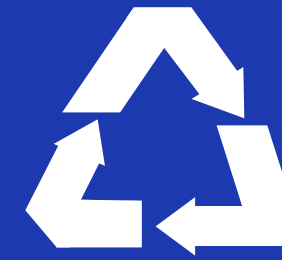


# ADVANTAGES VS. OTHER WATERTIGHT TESTING METHODS



## PRECISE

Detect leaks as small as 0.06mm with dual 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



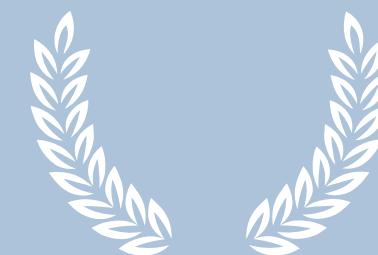
## COMPLIANT

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



## APPROVALS

Full ABS Type Approval & RINA Class Accepted



## AWARD FINALIST

IHS Markit Safety Product of the Year nominated.

# HOW TO TEST: 3 SIMPLE STEPS

Figure 1. Watertight Compartment

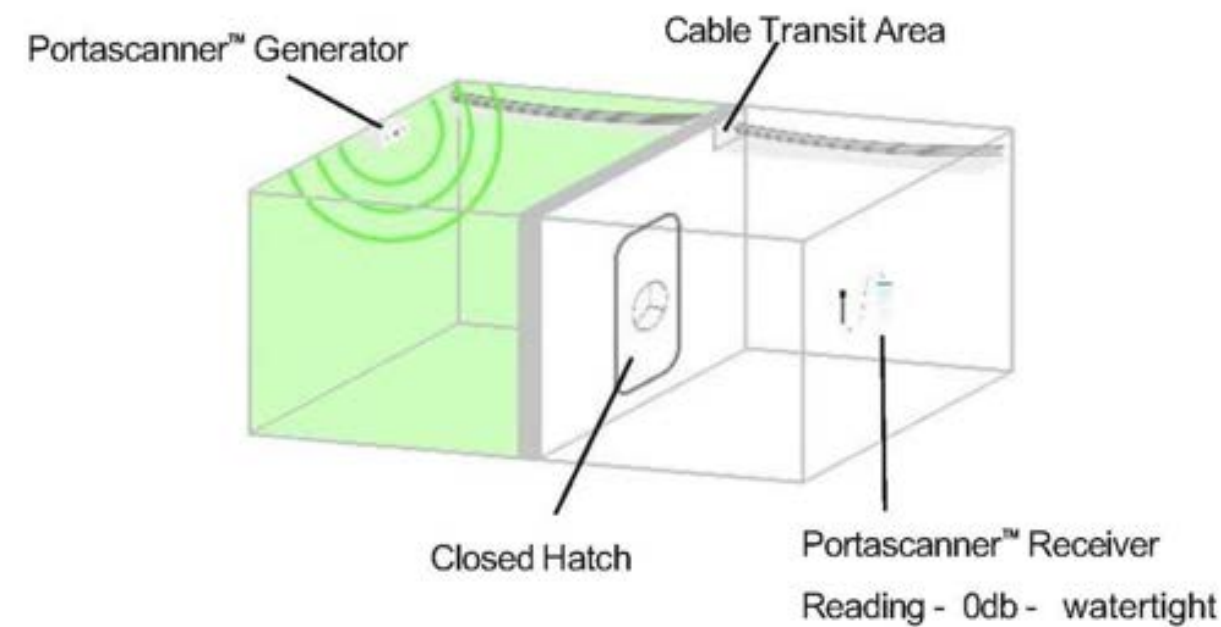
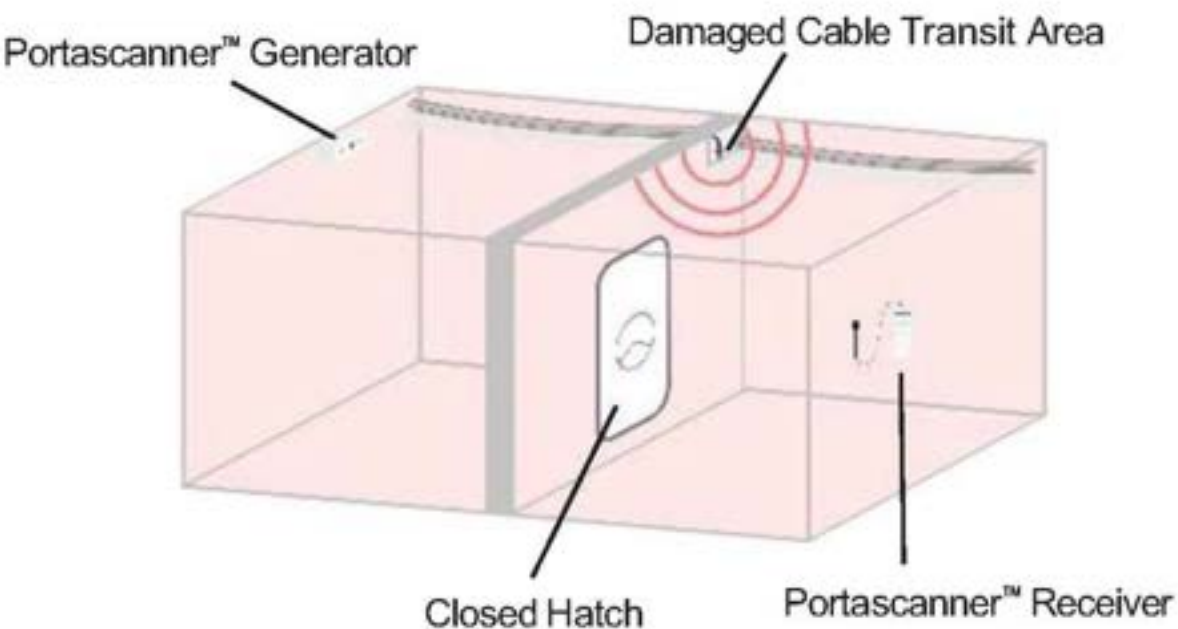


Figure 2. Non-compliant Compartment



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

## DELIVER BETTER FIRE SAFETY ONBOARD

### **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



<b>DIMENSIONS</b>	Main Unit: (H)215mm x(W)82mm x(D)30mm Main Unit: 420 grams
<b>ACCURACY</b>	0.06mm +/- 0.02mm
<b>ROD</b>	310mm x 25mm Diameter, Connected by BNC connector to 1m length co-ax cable
<b>PACKAGE CONTENTS</b>	<ul style="list-style-type: none"><li>• 1 Portascanner® WATERTIGHT Receiver</li><li>• 1 Ultrasonic Generator</li><li>• 1 Receiver</li><li>• 1 Headphones</li><li>• 1 Durable Carrying Case</li><li>• Calibration Certificate</li></ul>
<b>RECEIVER READINGS</b>	Visual (via LCD display and graph) and audible (via external headphones) Results shown in decibel (dB) and linear
<b>OPERATING TEMPERATURE</b>	-20°C to +70°C (68°F to 158°F)

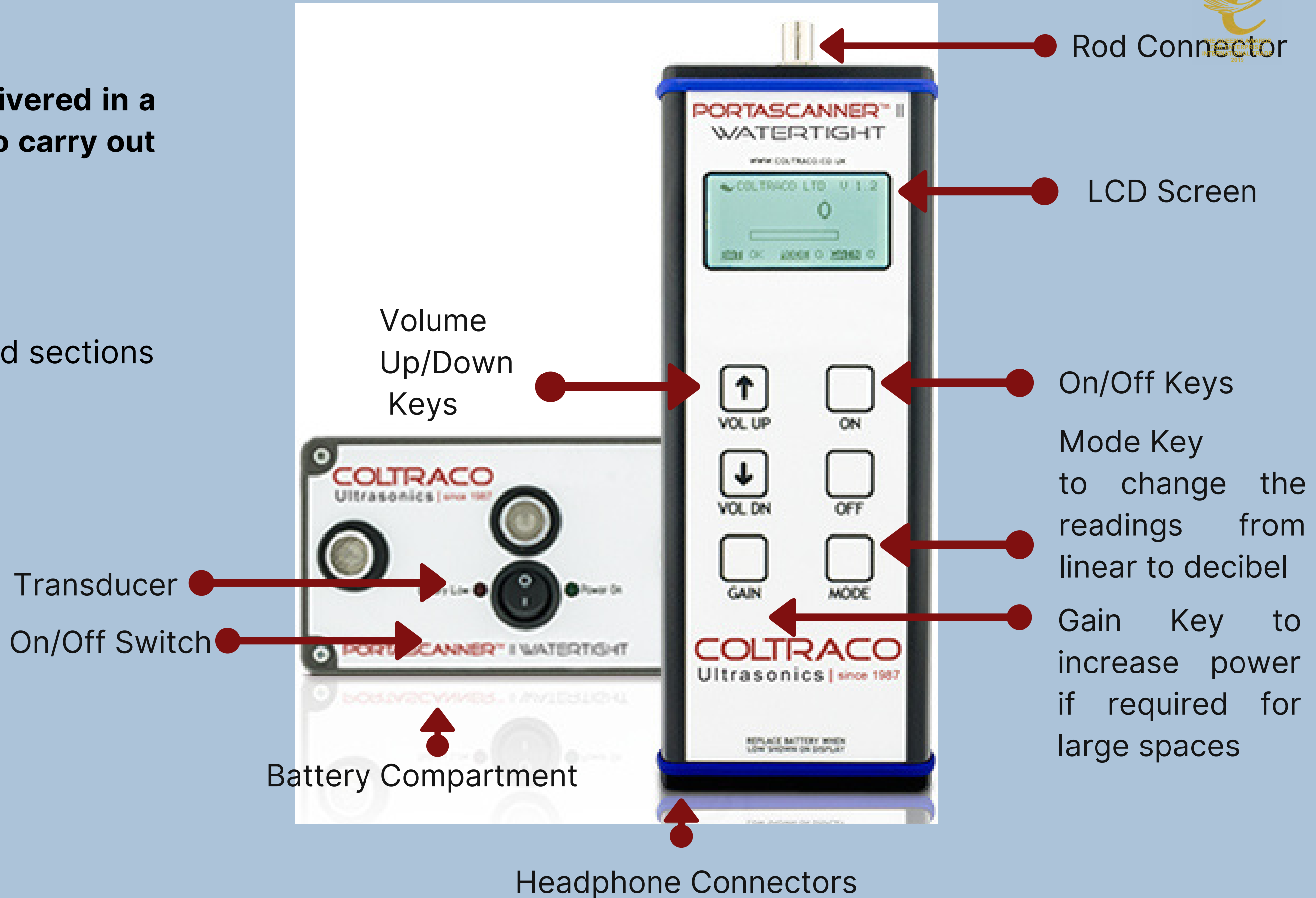
<b>DISPLAY</b>	Membrane control operated, LCD back-lit Display measuring 55 x 28 mm
<b>POWER</b>	<b>Generator</b> : 2 x PP3 9V battery (battery life 12 hours continuous use) <b>Receiver</b> : 1 x PP3 9V battery with low battery indication (battery life 10 hours)
<b>WARRANTY</b>	Main Unit: 3 Years Warranty Rod: 1 Year Warranty
<b>APPROVALS</b>	Full ABS Type Approval Classification Society Accepted- RINA CE ExVeritas ISO 9001
<b>CERTIFICATE</b>	Manufactured in England with ISO 14001 and 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
- 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.



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