

## DOOR-SAFE™

## Ultrasonic Water-Tight Tester



**UNIQUE  
5-YEAR  
RE-CALIBRATION  
PERIOD**



*Single Person use so no problem during Covid 19 pandemic*

**DOOR-SAFE™** is an American Bureau of Shipping (ABS) Type Approved ultrasonic unit that provides a quick and simple method of establishing water and weather tightness in doors, hatches, citadels and windows.

The easy to use **DOOR-SAFE™** kit consists of 2 units, an ultrasonic transmitter unit and a portable, hand-held receiver unit connected to a flexible inspection microphone and hard-hat compatible headphones, see Kit list. The transmitter and receiver are each supplied in protective leather cases fitted with neck straps to allow for hands-free use. The complete **DOOR-SAFE™** kit is contained in a blue polymer foam-lined carry case for easy transportation and storage.

### DOOR-SAFE ACCREDITATIONS:

- IMarEST Membership Number 8011107
- American Bureau of Shipping (ABS) TYPE APPROVED Certificate Number LD750707
- ISO 9001:2015 Certificate Number GB13487
- International Institute of Marine Surveyors (IIMS) Corporate Membership Number C508
- NATO Commercial And Government Entity (NCAGE) Code U0B22
- **DOOR-SAFE** NATO Stock Number 6635-99-464-5624



## UNLIKE HOSE OR CHALK TESTING, THE ULTRASONIC WATER-TIGHT TESTER:

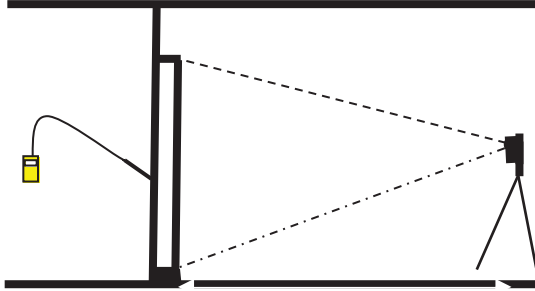
- can locate holes and tears in seals with pinpoint accuracy
- can be conducted in sub-zero temperatures
- does not interfere with other crew activities

## DOOR-SAFE™ APPLICATIONS

- Water-tight doors in the offshore, marine and aero-space industries
- Cars, yachts and cars
- Cable transits (see image below)
- Water-tight hatches and windows
- Submarine doors
- Navy doors & citadels
- Shipping containers



## HOW THE DOOR-SAFE™ ULTRASONIC WATER-TIGHT TESTER WORKS...



The principle for ultrasonic testing is very simple. A transmitter generating an ultrasonic signal is placed on one side of the door, either on the tripod or using the built-in magnets to attach to a suitable steel wall. The surveyor or operator, then uses the **DOOR-SAFE™** ultrasonic receiver to detect any ultrasonic sounds that pass through to the other side of the door with pin-point accuracy. If ultrasound can pass through, then it is also true that water may be able to pass through and the door is not water-tight. The size of the problem can be established from the strength of the signal detected.



## OTHER DOOR-SAFE™ FEATURES

- Each **DOOR-SAFE™** ultrasonic hatch cover tester comes with its own certificate of calibration and conformity.
- No training needed to operate - full instructions given.
- Simple to use, fast and accurate results.
- Transmitter switchable between HIGH 200mW and LOW 100mW output.
- Receiver has an internal microphone and 1watt loud-speaker—the unit can therefore be used without the microphone or headphones if required.
- 5 year recalibration period.
- Suitable to be carried as hand luggage on aircraft.
- Low noise receiver measuring ultrasonic in international standard decibels.
- Suitable for a wide range of applications
- 3 year warranty on receiver and transmitter units.
- Durable and storm proof, environmental protection to IP66.
- LCD display allows ease of reading in bright sunshine or in darkness.
- LED and sound warning of low battery on the transmitter, low battery warning on the receiver.
- Direct access to free technical support for the life of the product.

## THE COMPLETE DOOR-SAFE™ KIT INCLUDES

- Receiver displaying dB and bar-graph,
- in black leather case with neck & waste straps
- Dimensions: 160 x 100 x 30mm
- Weight: 350g
- Power Supply: 1 x PP3 9V
- Battery Life: 40 hours of operation
- Environmental Protection
- Leather case closed: IP66 (IEC529 and IEC144)
- End flap open: IP63 (IEC529 and IEC144)
- Neck and waste straps for hands free use.
- Temperature Range
- -20 °C to +60 °C High Humidity Durability
- PEAK HOLD function.
- Large LCD display with white LED back-light.
- 1watt internal loudspeaker.
- Digital noise cancellation
- 3 Years warranty
- Hard hat compatible headphones
- Flexible inspection microphone
- Microphone lead
- Tripod for transmitter placement
- Full operating instructions
- 2 x PP3 9v alkaline battery

