

## DOOR-SAFE™ Ultrasonic Water-Tight Tester



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.

### Class Instrumentation Ltd

London, United Kingdom

Telephone: +44 (0)20 8333 2288

info@classltd.com

www.classltd.com

 follow us @classltd

 like us on facebook.com/ClassInstrumentation

#### DOOR-SAFE ACCREDITATIONS:

- American Bureau of Shipping (ABS) TYPE APPROVED Certificate Number LD750707
- ISO 9001:2008 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:

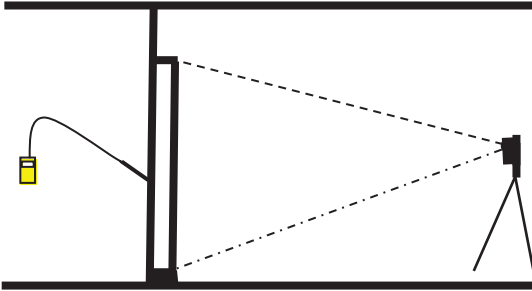
- can locate holes and tears in seals with pinpoint accuracy
- can be conducted in sub-zero temperatures
- does not interfere with other crew activities



## DOOR-SAFE™ APPLICATIONS

- Water-tight doors in the offshore, marine and aero-space industries
- Cars, yachts and cars
- Water-tight hatches and windows
- 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

- Blue foam-lined plastic carry-case
- Certificate of Calibration and Conformity
- Bi-frequency ultrasonic transmitter unit in black leather case with straps
- Receiver displaying dB and bar-graph, in black leather case with straps
- Hard hat compatible headphones or sound isolated version
- Flexible inspection microphone
- Telescopic extension arm with grip
- Microphone lead
- Tripod for transmitter placement
- Full operating instructions
- 6 x AA alkaline battery
- 1 x PP3 9v alkaline battery



- Total weight of kit in carry case as shown: 2.7kg
- Complete operational weight 2.4kg

