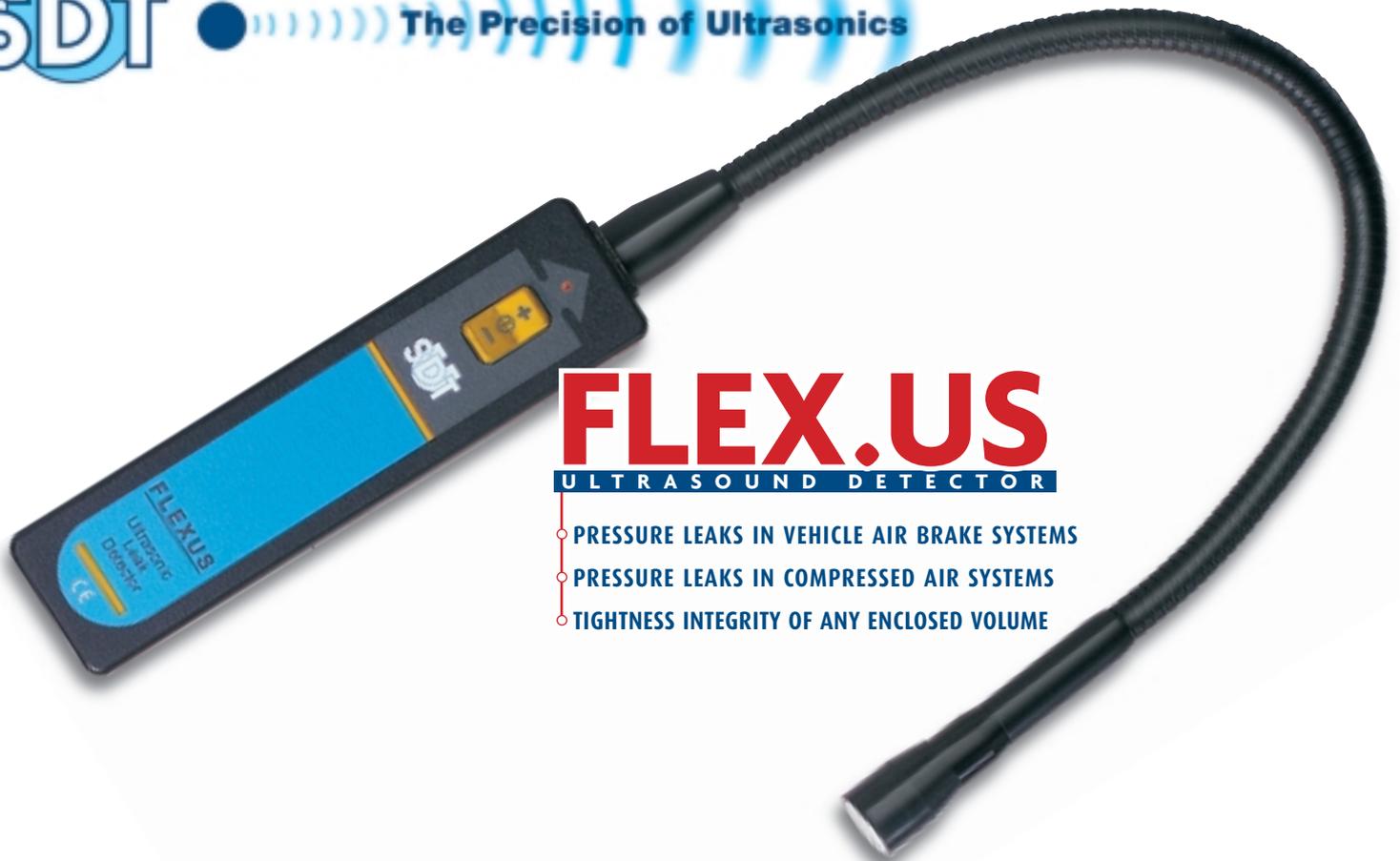




The Precision of Ultrasonics



# FLEX.US

ULTRASOUND DETECTOR

- PRESSURE LEAKS IN VEHICLE AIR BRAKE SYSTEMS
- PRESSURE LEAKS IN COMPRESSED AIR SYSTEMS
- TIGHTNESS INTEGRITY OF ANY ENCLOSED VOLUME

## 10 GOOD REASONS TO EQUIP YOURSELF WITH THE FLEX.US ULTRASOUND DETECTOR

### 1 Compressed air leaks = wasted money.

Compressed air leaks account for between 30 and 40% of the total air demand in a factory. The compressor room ranks as the 3<sup>rd</sup> highest consumer of energy in most facilities. Finding and fixing leaks is the best opportunity we have for both energy and operating cost reduction.

### 2 A leak = danger.

Detecting pneumatic leaks in vehicle brake systems is a high priority measure that ensures safer vehicles on our roadways.

### 3 Tightness integrity = quality and comfort problems.

To verify the tightness of any volume (vehicles, aircraft, clean rooms, building envelope, nuclear containment walls, etc...) you need the reliability and precision of the ultrasonic testing method. Ultrasonic leak testing is the most widely-used method for identifying wind noise and water leaks in vehicles, and integrity issues in other closed volumes.

### 4 Leaks produce ultrasonic noise; the FLEX.US lets you hear them.

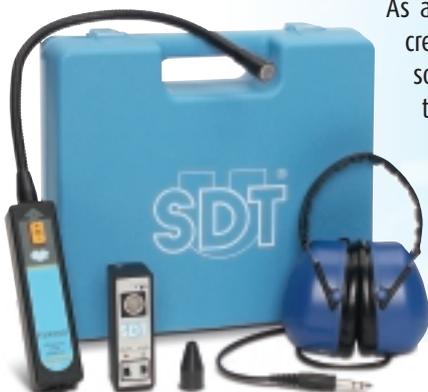
As a leak passes from a high pressure to a low pressure, it creates turbulence. The turbulence generates a high frequency sound component, which is detected by the FLEX.US, allowing the technician to quickly identify and pinpoint the leak.



Compressed air in a workshop



Brake circuits

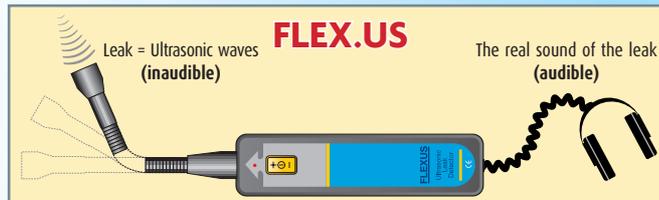


## 5 A serious tool, The FLEX.US quickly pays for itself.

Flex.US is a powerful diagnostic instrument that guarantees results. Ultrasonic waves are detected by FLEX.US and converted into representative audible sounds that are heard in the headset. FLEX.US is not affected by high levels of ambient factory noise. Its design is a unique approach to traditional testing methods.

## 6 The reliability of the FLEX.US is unmatched.

FLEX.US maintains the turbulent sound quality of a leak as it converts the ultrasonic noise to a sound humans can hear (hissing sound). Some instruments simply produce electronic signals (beeping) in the headset. These false signals do not distinguish a leak sound from other phenomena and make leak detection all but impossible.



A simple but extremely efficient principle.

## 7 The FLEX.US, all the flexibility you will ever need.

The design of the FLEX.US is based on the popular "Flexible Sensor" from SDT. Mounted on the end of a flexible steel pipe, the ultrasonic sensor can access any hard-to-reach location. Bend, twist, and curve your FLEX.US to suit your inspection. Safely scan electrical cabinets and behind machinery guards without putting your hands in danger. To ensure comfort, the volume control is quickly adjusted when very loud ultrasounds are encountered. This sensitivity provides a high level of precision making leak detection a pleasure, not a chore.

## 8 The FLEX.US is complete.

The quality headset of the FLEX.US has excellent noise attenuating properties for use in the noisiest environment. A SDT 200 mW ultrasound transmitter with 2 frequencies is available as an option to test the integrity of closed volumes. A rugged carrying case with foam insert protects your FLEX.US when its not in use.

## 9 The FLEX.US is robust, and a pleasure to use.

Appearances are not deceiving... The FLEX.US is a solid tool, built to last. Expect the same level of quality synonymous with the SDT name. Easy to use, it works with 2 AA sized alkaline batteries.

## 10 The FLEX.US wears the sign of a market leader.

The FLEX.US is the product of a wealth of experience gained by SDT International in predictive maintenance, the detection of leaks and quality control in all sectors. The success of SDT is based on its desire to supply efficient solutions that meet the needs of clients so that they can improve their profitability.



Cockpit



Brake circuits

**LEAK DETECTION IS SERIOUS BUSINESS THAT REQUIRES SERIOUS TOOLS.  
CHOOSING THE RIGHT TOOL CAN MEAN THE DIFFERENCE FOR A SUCCESSFUL  
LEAK DETECTION PROGRAM.**

**SDT**<sup>®</sup> The Precision of Ultrasonics.

SDT International nv sa :  
415, Boulevard de l'Humanité  
B- 1190 Brussels  
Tel : + 32 2 332 32 25  
Fax : + 32 2 376 27 07  
E-mail : [info@sdt.be](mailto:info@sdt.be)  
[www.sdt.be](http://www.sdt.be)