



Ultrasound  
Solutions

# T-SONIC1



**ULTRASOUND TRANSMITTER DESIGNED FOR THE TIGHTNESS INSPECTION OF CLOSED VOLUMES AND SPACES THAT CANNOT BE PRESSURIZED OR DEPRESSURIZED.**

Light-weighted, featuring small footprint and 2-frequency emission, it is designed for the control of doors, frames, windows, cold chambers, fridges or any other medium-sized volume.

Simple to use, it includes two light indicators (voltage, battery charge, etc.) and two control keys ("on/off" and "+20 dB $\mu$ V boost").

It also includes a transducer output that can be used to insert a transducer in a space that is narrow or difficult to access, such as a pipe, a wall base, etc.

A clever combination allows programming automatic shutdown. A USB port is used to power up the instrument through a computer or to update the embedded firmware if required.



# T-SONIC1 ULTRASONIC TRANSMITTER FEATURES

## Description :

T-Sonic1 is a directional Bi-sonic Ultrasound Transmitter including a single transducer. Designed for tightness inspection of constructions or industrial products, T-Sonic should be used in combination to an Ultrasound Receiver as the SDT270 or the SDT200.

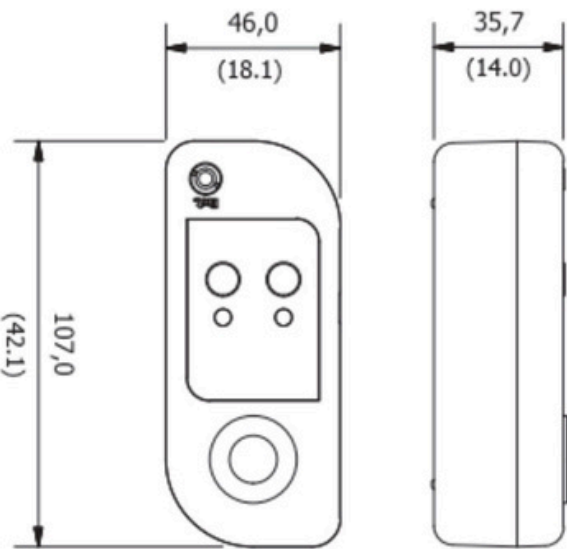


Figure1: Dimensions mm (in.)

## Specifications :

General			
Transmitter frequencies		kHz	39.6 and 39.9
Vobulation period		ms	80
Transmitted Sound Pressure Level at 100 cm, Ref. 0 dB=0.0002 μbar	Boost off	dB SPL	85
	Boost on		105
Beam angle with -6 dB of attenuation		°	60
Power supply			2 AA batteries
Autonomy with Alkaline batteries		hours	30
Environmental			
Operating temperature range		°C (°F)	-10 to +50 (14 to 122)
IP rating			30
Mechanical			
Housing material			Acrylonitrile Butadiene Styrene (ABS)
Weight including batteries		g (oz)	122 (4.3)
Connector for external transducer			Jack 3.5

## Optional Accessories :

Reference	Designation
FUSEUSTC18/J3M	External Closed Transducer 18mm, cable 2.5m, jack 3.5
FUSEUSTO16/J3M	External Open Transducer 16mm, cable 2.5m, jack 3.5

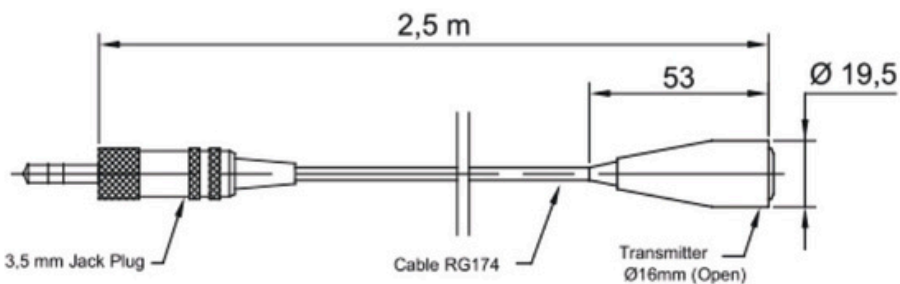


Figure2: Closed transducer 18mm

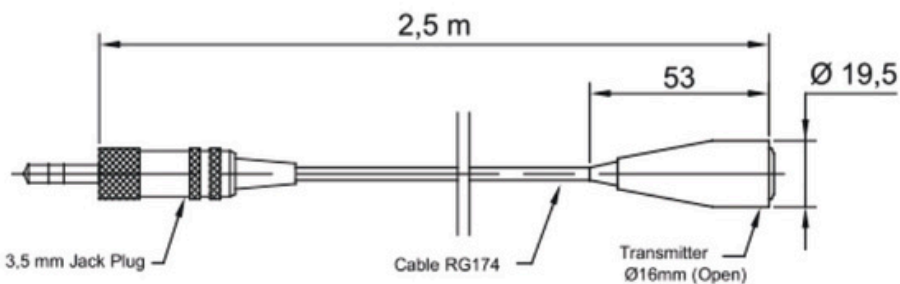


Figure3: Open transducer 16mm

### SDT: leader in acoustic detection for industrial maintenance

SDT's expertise has made it the undisputed leader in its field. SDT designs and produces measuring instruments for ultrasonic leak detection, predictive industrial maintenance, tightness testing and quality control. SDT's success is built on its determination to provide effective and preventive solutions to its customers' needs thus enabling them to optimize their profitability.



Ultrasound Solutions



VPOWER RELIABILITY Office:  
No. 8 Nguyen Cuu Van st.  
Gia Dinh Ward  
Ho Chi Minh city, Vietnam

Contact  
Phone: +84 28 3899 1096  
Email : sales@vpower.com  
Web : vpowerjsc.com

The T-Sonic1 is part of the SDT products range that combines robustness and high performance. It is available through our worldwide authorized distributors network.