TECHNICAL DATA

Fluke SB140 Sound Beacon

Upgrade your leak detection process with the Fluke SB140 Sound Beacon

Ensure the integrity of your non-pressurized vessels with the Fluke SB140 Sound Beacon. This cutting-edge method revolutionizes leak detection and tightness testing by placing the SB140 Sound Beacon device inside the vessel and using a Fluke Acoustic Imager from the outside to visually locate escaping ultrasound through weld beads, gaskets, seals, hatches, or windows. It is perfect for quality control in aviation, automotive, railroads, clean rooms, and more.

Beacon Mode makes the process even easier

FAST AND ACCURATE
Ideal for applications where pressurization isn't feasible, offering a swift and precise inspection process for vehicles, aircraft, compartments, and buildings.

EFFICIENT
Traditional methods are slow and labor-intensive. The Fluke SB140 Sound Beacon, combined with an acoustic imager, allows you to quickly pinpoint and address leaks.

USER-FRIENDLY
Operate easily with minimal training, making it accessible for all personnel.

The Fluke SB140 Sound Beacon is designed with tightness applications in mind and to work in conjunction with Fluke acoustic imagers. The chosen ultrasound frequency of 40 kHz is excellent at traveling through the air with low attenuation. This means the sound inside a closed space can effectively find its way out of a leak path and to the Fluke camera for visualization. Fluke acoustic imagers easily detect the ultrasound frequency of the SB140 Sound Beacon, so the potential leak point is pinpointed visually on the screen. Using the Fluke acoustic imager in “Beacon Mode” is even more straightforward because the camera frequency filter is fixed and centered on 40 kHz.

Applications and Benefits

The Fluke SB140 Sound Beacon is designed to provide easy, fast, and superior leak detection and tightness testing across various industries, ensuring high-quality standards and regulatory compliance.

Automotive

Product Quality: Reduce warranty claims with in-line auto window/door water leak and tightness tests.

Safety: Ensure EV battery compartment integrity with quick and reliable leak and tightness tests.

Heavy-Duty Vehicles: Test truck axle compartments for leaks and tightness.

Aviation

Safety: Conduct aircraft cabin, window, and tank leak and tightness tests during maintenance for new and active planes.

Cleanrooms

Product Quality: Minimize warranty claims and downtime while meeting regulatory requirements with cleanroom leak and tightness testing.

White Goods

Product Quality: Ensure proper seals in appliances like washing machines and refrigerators with in-line production leak and tightness testing.

Maritime

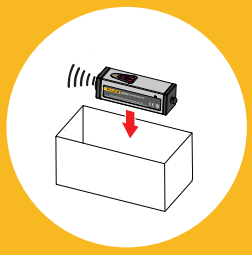
Cost Reduction: Prevent damaged cargo and meet regulatory requirements with cargo container leak and tightness tests.

Construction

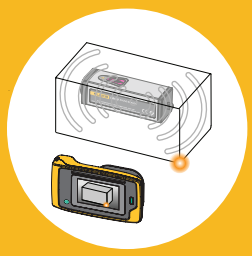
Quality: Identify weak spots in doors, windows, façades, and office pods to minimize energy consumption and ensure sound insulation through leak and tightness testing.

How to Find a Leak in Three Easy Steps

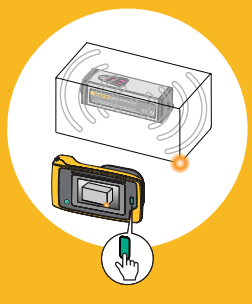
1 Setup:
Place the Sound Beacon inside the container you want to test.



2 Detection:
Use the Fluke acoustic imager to locate any possible leaks.



3 Capture:
Capture the leak on the acoustic imager for documentation.



Specifications

General specifications	
Operating temperature	-20 °C to +54 °C (-4 °F to 130 °F)
Storage temperature	-40 °C to +55°C (-40 to 131 °F), without battery
Relative humidity	10 to 95 %, non-condensing
Ingress protection (IP)	IEC 60529: IP40
Size of device (H x W x L)	(32x32x105) mm, (1.26x1.26x4.125) in
Housing	Extruded Aluminum
Weight: Sound Beacon	175 g (6.2 oz), battery included
Weight (acoustic probe):	12 g (0.45 oz)
Battery life	> 300 hours
Power supply	9-volt alkaline (included)
Sound frequency	40 kHz ± 1.5 kHz
Controls	on/off switch
Warranty	2 years
Safety	
General Safety	IEC 61010-1: Pollution degree 2
Electromagnetic Compatibility (EMC) International	IEC 61326-1: Portable Electromagnetic Environment IEC 61326-2-2 CISPR 11: Group 1, Class A
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication)
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.

Ordering information

FLUKE-SB140 Fluke SB140 Sound Beacon

Included
Sound Beacon unit, 9 V Battery, Soft Case, Accessory 1 inch probe, Instruction Sheet, and Warranty Card.

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