

Wireless Hand-Held Remote for VS Series Leak Detectors



Leaks in large systems often occur far from the leak detector. Wired remote controls have sought to address this problem, but impedance and the cumbersome nature of long cables are often limiting factors. For many applications these traditional wired remotes provide little benefit.

Varian is proud to introduce the first wireless remote control for a helium mass spectrometer leak detector. By utilizing modern wireless technology, leak testing hard-to-reach locations is now much easier, and can be performed at much greater distances of up to 100 meters.

Applications in large systems in which two technicians were previously required can now be performed by one technician, thereby reducing labor costs. All the major functions of the leak detector are now at your fingertips, giving you a truly portable leak detection solution.

In addition to the visual bar graph of the leak rate, the remote control has a speaker that provides a variable tone indicating the trend and relative size of the leak. The wireless remote can operate for a full 8-hour shift, or longer, on four AA batteries and conforms to ISM band, 2.4 GHz FHSS standards.

Applications

Vacuum Furnaces
 Glass Coaters
 Roll Coaters
 E-Beam Welders
 Beam Lines/Accelerators
 Semiconductor Process Tools
 Ion Implanters
 Power Generation Plants

Features

- Wireless technology
- 100 meter (328 ft) range
- Internal speaker
- Head phone jack
- 20 channels
- 2.4 GHz frequency, ISM band compliant

Benefits

- Significantly extends range without cumbersome, restrictive cables
- Enables single operator testing
- Emits variable tone that corresponds to leak rate signal
- Enables testing even in noisy environments
- Allows use of hand held remote with multiple leak detectors
- Free license band with minimum cross-talk

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Photo Courtesy of Carbon Composites, Inc.

Technical Specifications

Frequency/Band	2.4 GHz, ISM Band FHSS Compliant
Range	100 m (328 ft)
Functions	Test/Hold, Zero, Read Standard Leak, Set-up
Power Supply	4 (four) AA Batteries or by 5 ± 1 VDC, 1 A (min)
Operating Life	Approximately 12 hrs (dependent on batteries)
Internal Speaker	85 dB min @ 1.0 ft
Head Phones	Mono, 3.5 mm plug, ≥ 32 ohm impedance, 1000-10,000 Hz frequency response
Operating Temperature	+12°C to +40°C
Ruggedness	Meets industrial standards for hand-held equipment (Section 8.4.2 of UL 61010-1 2nd edition)

Ordering Information

Part numbers	Description
VSFLDWB	Wireless Base Unit, Field Installed
VSFACWB	Wireless Base Unit, Factory Installed
VSLDWRC	Wireless Remote Control

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