Seeker Lite²

Leakage Detector

- Numerical Measurement Display
- Sensitive, Stable Measurements
- Directional Antenna Helps Locate Leaks
- Multi-Channel Operation
- Long Battery Life

Overview

The Seeker Lite²™ is a tough, convenient and flexible leakage test tool. It assists in subscriber installs by verifying that leakage in the house is not great enough to contribute to the cable system's cumulative leakage index (CLI). Leaks can also be important sources of ingress that can hinder communication on the return band. The Seeker Lite² can also be used to find leaks during troubleshooting. Seeker Lite² works by measuring ambient RF leakage in and around a subscriber's premises and can be used to identify and locate all RF leaks greater than 10 µV/m.

EASY FREQUENCY CONFIGURATION

Seeker Setup™ configuration software simplifies the process and makes configuring multiple units quicker and easier. Instead of going to the factory to make hardware modifications, you can use Seeker Setup to adjust frequencies.

MULTIPLE FREQUENCY PRESETS

With the optional Seeker Setup software, the Seeker Lite² can operate on up to 10 different frequency presets, making it easier to monitor and maintain multiple cable systems. These presets define the leakage monitoring frequency and, if desired, the tag detection frequency as well. You have the option of setting up only one frequency preset for simple operation, or multiple leakage frequencies for maintaining multiple cable systems. Frequency settings range from 118.50 MHz to 147.2500 MHz, in .00625 MHz (6.25 kHz) increments.

SUPERIOR ANTENNA

An improved antenna design provides more directionality than is typically available from other leakage meters.

CHANNEL TAG COMPATIBILITY

Compatibility with the Trilithic CT-2™ and CT-3™ channel tag devices is another feature of the Seeker Lite². Channel tagging refers to the process of adding frequency tags to a broadcast channel signal. The Seeker Lite² can be set up to detect a tagged leak and to ignore leaks that are not tagged. This feature helps you avoid chasing false alarms from signals originating outside your system.

GT NOISE DISCRIMINATION

For systems employing digital set top terminals that cannot tolerate "tagged" leakage carriers, the Seeker Lite² has enhanced "false alarm" resistance. The Seeker Lite² analyzes the detected RF energy and automatically rejects all noise and signals that are not caused by leaks from your system.

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Seeker Lite²

P/N 2011002103

SQUELCH OPERATION

Squelch level is the RF signal threshold that the Seeker Lite² uses to determine the validity of the signal. The signal "breaks squelch" when the RF leakage is greater than the squelch level, as long as any enabled tag or GT noise qualifiers are met as well. The receiver will not alarm for signals below the squelch level. The squelch level has a factory default of 20 µV/m; however, it can be reconfigured using the Seeker Setup software.

SOURCE LOCALIZATION

The Seeker Lite² emits an audible tone to help you pinpoint the leakage source. The tone frequency increases with signal strength. As you move closer to the leak, the tone frequency will increase.

Seeker Lite² Modes

MEASUREMENT MODE

Measurement mode is used to accurately determine the strength of a leak, pinpoint its location, and provide a leakage value for documentation. Measured RF leakage values can range from 10 to 2000 µV/m and are displayed in large, easy-to-read numbers. A bar graph at the bottom of the display illuminates proportionally to the signal strength of the leak.

Additionally, an audible tone will sound if the measured signal breaks squelch. The signal breaks squelch when the RF leakage is greater than the squelch level, as long as any enabled tag or GT noise discrimination qualifiers are also met. This tone can be used to help locate the leak source.

CRUISE MODE

The LED on the top of the Seeker Lite² will slowly blink to show the meter is operating in cruise mode. In contrast to the continuous monitoring done during measurement mode, cruise mode monitoring is done in cycles. The Seeker Lite² "sleeps" for a short period of time, wakes up, and then takes a measurement. An alarm will beep if the measured signal breaks squelch. Less battery life is used during cruise mode than measurement mode.

Specifications

Frequency Range	118.50 to 147.25 MHz settable, using optional Seeker Setup configuration software.
Default Frequencies	121.2625 MHz 127.2625 MHz 133.2625 MHz 139.2500 MHz 146.2625 MHz
Frequency Presets	Up to ten selectable operating frequencies. Selections are loaded into detector using Seeker Setup software.
Level Range	10 to 2000 µV/m. Can freeze current numeric reading or hold peak readings.
Display	LCD readout of any detected leakage within sensitivity range.
Audible Tone	Tone is present if leakage amplitude exceeds squelch setting. Pitch is proportional to the strength of the leak.
Channel Tag Range	10 to 23 Hz
Power	Internal Lithium-ion battery.
Operation Time	**Measurement mode:** 8 hours typical. **Cruise mode:** 100 hours typical. **Charge time:** Less than 3 hours for full charge.
Dimensions (H x W x D)	6.38" x 2.95" x 1.57" (162mm x 75mm x 40mm)
Weight	0.60 lb (272 g)

INCLUDES THE FOLLOWING:

AC battery charger

Carying case with holster

User's manual

ACCESSORIES:

International power adapter kit
P/N 0610169011

CL-8 vehicle power adapter
P/N 0610169005

Seeker Setup software
(includes I/O-17 cable)
P/N 0930109002

I/O-17 PC data cable
P/N 2071585003

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