VIAVI
Seeker with Seeker MCA III
Analog Leakage Management System
A Trilithic Series Leakage Solution

Overview

The VIAVI Seeker with Seeker MCA III leakage management system offers high performance GPS leakage detection and documentation at a competitive price. No investment for special driveout vehicles is required, and every truck in the operator's fleet can identify leakage outbreaks with GPS precision.

Automatic Leak Recording

While driving to a location or to work, the technician leaves the Seeker in the mobile mount, where it's connected to vehicle power, an antenna, and a GPS receiver. The system automatically monitors leakage outbreaks and records the data with a time/date stamp and the leak's GPS location.

Convenient Uploading

Uploading data records to a server can be fully automated, occurring whenever the vehicle enters a home location or via an operator-controlled WiFi hotspot.

GPS Component Options

The operator has several options for providing the GPS receiver/antenna to link with the Seeker GPS system.

If there is no existing unit, one can be obtained from VIAVI. If the vehicle is already equipped with a fleet management system using a GPS receiver, in many cases the Seeker GPS system can make use of it.

Powerful, flexible, convenient, and very cost-effective; the Seeker GPS system from VIAVI sets an entirely new standard for GPS leakage management.

Key Features

- High-performance, GPS-based leakage management system; ideal for drive-outs, leak documentation, and troubleshooting

- Very cost-effective deployment throughout entire fleet

- Maximum efficiency achievable through totally automatic operation

- Automatic uploads via WiFi, cellular, ethernet, or manually through USB

- Seeker easily removed from mobile mount for find and fix

- Real-time leakage detection using EDN

Next-Generation Mobile Support

The Seeker MCA III offers high performance GPS location recording and documentation when monitoring only the aeronautical bands with existing Seeker leakage detectors or monitoring both the aeronautical and LTE bands with the Seeker D leakage detector. This device also allows you to daisy chain the mobile mounts of the Seeker and Seeker D units together in order to log data from multiple units mounted in the same vehicle.

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Uploading data records to a server can be fully automated, occurring whenever the Seeker MCA III detects any one of 10 possible operator-controlled WiFi hotspots.

Remote upgrade capabilities via the LAW server provide users with the ability to update firmware without physically connecting to the Seeker MCA III.

Early Detection Notifications

When a set threshold level within the Seeker has been surpassed, the VIAVI Leakage Analysis Workshop™ (LAW) will email an EDN (Early Detection Notification) to insure that large leaks will be identified immediately. This automatic process helps keep the technician from being distracted while driving or working.

Available Seeker Models	Part Number
Seeker Leakage Detector without Mobile Mount	TRI-LKG-SEEKER-METER
Seeker D Leakage Detector with Mobile Mount	TRI-LKG-SKR-D-W-MOUNT
Available Seeker MCA III Models	**Part Number**
Seeker MCA III with WiFi	TRI-LKG-SEEKER-MCA-WIFI

Specifications

Leakage Detector	
Frequency Range	Low band: 109.25 to 110.5 MHz
	High band: 118.5 to 147.25 MHz
	Can be adjusted in 6.25 KHz steps using the configuration methods listed below
Frequency Settings	10 user-adjustable operating frequencies, selectable on front panel Set using the configuration methods listed below
Calibrated Level Range	2 to 2000 µV/m
	Can freeze current numeric reading
Level Accuracy	±2.0 dB
Numerical Display	Readout of any detected leakage within sensitivity range
Audible Tone	Tone is present if leakage amplitude exceeds squelch setting
	Pitch is proportional to strength of leak
Automatic Noise and Overbuild Discrimination	Internal circuitry discriminates between leaks and noise
	Overbuild discrimination requires the CT-2™ or CT-3™ channel tagger installed in hub or head-end
Data Connection	USB connection to local PC running LAW upload client Internet or LAN connection from LAW upload client to LAW Server
Power	Internal battery with eight hours of operation per charge OR Vehicle power of 12 VDC while in Mobile Mount
Configuration Method	Connection from Leakage Detector to local PC running Seeker Setup Software
Seeker MCA III	
Ethernet Communications	10/100 RJ45 connection to fleet management systemss
WiFi Communications	Type: WiFi (802.11 a/b/g/n) to operator-controlled and configured hot-spot
	Security: WPA-PSK (TKIP), WEP (128-bit) or WPA2-PSK (AES)
Cellular Communications	Optional GSM/GPRS cellular connection to operator-provided cellular carrier
Early Detection Notification (EDN)	Email notification of threshold exceeding leaks

Seeker Includes

- Seeker Leakage Detector
- Mobile Mount, Vehicle Power Cable and Wiring Protection Kit (optional)
- Low Band Rubber Duck Antenna
- AC Travel Charger and USB Cable
- Printed Quick Start Installation Checklist and Guide

Seeker MCA III Includes

- Seeker MCA III
- Seeker MCA III to Mobile Mount Power and Data Cable
- 2.4 and 5 GHz WiFi antenna
- Shielded ethernet cable (10ft)
- Cellular antenna (optional)

Channel Taggers	Part Number
CT-4 Channel Tagger	TRI-LKG-CT4
Available Software	**Part Number**
Seeker Setup Configuration Software	TRI-LKG-SW-SEEKER-PC
Analog Measurement LAW Integrated Server Package	TRI-LKG-LAW-SERVER-W-SW
Low Band Antennas	**Part Number**
AFS-2 dipole antenna (138 MHz) (Specify leakage frequency when ordering)	TRI-LKG-AFS-2-LONG
AVM-3 magnetic base, vertical quarterwave whip antenna (138 MHz) (Specify leakage frequency when ordering)	TRI-LKG-AVM-3
WiFi and Accessories	**Part Number**
Garmin® GPS receiver for Seeker MCA II and Seeker MCA III	TRI-LKG-GPS-MCA
Miscellaneous Accessories	**Part Number**
CC-28 padded holster	TRI-LKG-SEEKER-D-HOLSTER
CL-9 vehicle power adapter	TRI-ACCY-USBPWR-VEH-WCBL
Shielded ethernet cable (10ft)	TRI-ACCY-CAT5-10FT-QUAD
Seeker MCA III to Mobile Mount Power and Data Cable	TRI-LKG-SKR-MCA-PWR-CBL
2.4 and 5 GHz WiFi antenna	TRI-LKG-MCAIII-WIFI-ANT

VIAVI Solutions

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