

- 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
- Leakage Record Upload via WiFi, Ethernet, or USB
- Seeker Easily Removed from Mobile Mount for Find & Fix
- Real-Time Leakage Detection using EDN



Ideal for drive-outs, leak documentation, and troubleshooting

Trilithic's Seeker with MCA III leakage management system offers high-performance GPS leakage detection and documentation at a competitive price. No investment for special drive-out 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.

Early Detection Notifications

When a set threshold level within the Seeker has been surpassed, Trilithic's 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.

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 Wi-Fi 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 Trilithic. 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 Trilithic sets an entirely new standard for GPS leakage management.

innovative technology to keep you a *step ahead*

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 new 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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Early Detection Notifications

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AVAILABLE SEEKER MODELS:

- Seeker Leakage Detector without Mobile Mount
P/N 2011073000
- Seeker D Leakage Detector with Mobile Mount
P/N 2011073101

AVAILABLE SEEKER MCA III MODELS:

- Seeker MCA III with Wi-Fi
P/N 2011655000
- Seeker MCA III with Wi-Fi & Cellular
P/N 2011655001

FUTURE CAPABILITIES

At product release, the Seeker MCA III will include all of the same features of the previous Seeker MCA II. But, with a simple free firmware update, the Seeker MCA III will also be able to perform even more including:

- Remote programming capabilities via the LAW server that provide users with the ability to update setup and firmware without physically connecting to the Seeker MCA III. This feature also provides the ability to perform remote programming and firmware upgrades on the Seeker D when it is placed in the included mobile mount.
- Near real-time vehicle tracking via LAW with a two minute refresh interval
- Fleet Management Interface (FMI) that is used to communicate with compatible Garmin navigation devices. The FMI feature also provides the ability to; automatically send Point Of Interest files to the navigation device for turn-by-turn directions to the latitude and longitude of the leak, close out leaks from the navigation device and send direct messages to a technician in the field.
- Advanced troubleshooting event logs will be stored internally and exported as a data file to be read on a PC for diagnostics.

LEAKAGE DETECTOR SPECIFICATIONS

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 μ V/m Can freeze current numeric reading
Level Accuracy	\pm 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	USB connection from Leakage Detector to local PC running Seeker Setup Software

SEEKER MCA III SPECIFICATIONS

Ethernet Communications	10/100 RJ45 connection to fleet management systems
Wi-Fi Communications	Type: Wi-Fi (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 & Wiring Protection Kit (optional)
Low Band Rubber Duck Antenna
AC Travel Charger & USB Cable
Printed Quick Start Installation Checklist & Guide

MCA III INCLUDES:

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

CHANNEL TAGGERS:

CT-2 Channel Tagger
P/N 2010670001
CT-3 Channel Tagger
P/N 2010762000
CT-4 Channel Tagger
P/N 2011632000

AVAILABLE SOFTWARE:

Seeker Setup Configuration Software
P/N 0930109002
LAW Integrated Server Package
P/N 2011190200
LAW SaaS Subscription
P/N 9980002000

LOW BAND ANTENNAS:

AFS-2 dipole antenna (138 MHz)
P/N 2010436000
APM-3 permanent mount, vertical quarter-wave whip antenna (138 MHz)
P/N 2010650000
AVM-3 magnetic base, vertical quarter-wave whip antenna (138 MHz)
P/N 2010379000

WI-FI & ACCESSORIES:

Garmin® GPS receiver for Seeker MCA II & Seeker MCA III
P/N 2071707004
Industrial-grade Wi-Fi access point
P/N 2011222000
Garmin FMI Cable (FMI-40)
P/N 2071585025
Garmin FMI Cable (FMI-40 Euro)
P/N 2071585027
Garmin FMI Cable (FMI-15)
P/N 2071585026
Seeker MCA II or MCA III to Wireless Matrix or SageQuest Data Cable
P/N 2071585030

MISCELLANEOUS ACCESSORIES:

Seeker pole mounting kit
P/N 2071802000
CC-28 padded holster
P/N 2131249000
CL-9 vehicle power adapter
P/N 0610169007
Shielded ethernet cable (10ft)
P/N 2072213010
Seeker MCA III to Mobile Mount Power and Data Cable
P/N 2071585029
2.4 & 5 GHz Wi-Fi antenna
P/N 2071677004
Cellular antenna (international pentaband)
P/N 2072195002