

ALCOLOCK™ L series

Alcohol Ignition Interlock Solutions

Available through:



Alcohol Countermeasure Systems

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Designed in Canada by
Alcohol Countermeasure Systems Corp



Warranty

All ACS alcohol ignition interlocks are warranted to be free from defects in workmanship and material for one year from the date of purchase. Only qualified technicians should perform maintenance on any alcohol ignition interlock.

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Secure and reliable monitoring

ALCOLOCK L series alcohol ignition interlocks feature a user-friendly handset to perform breath alcohol tests and communicate with the driver, and an electronic control unit (ECU) that connects to the power and control circuits of the vehicle. Drivers use the handset to provide a breath sample, and the ECU inhibits vehicle operation if the test result is above the preset breath alcohol content (BrAC) limit.

Programmable

ALCOLOCK L series interlock settings are programmable to meet company safety policy requirements. Drivers may be tested at the beginning of their shift or at intervals throughout the day.

Communication capabilities

All L series devices can manually transfer data for real-time reporting of critical events, ALCOLOCK L series can be equipped with GPRS connectivity to provide instant notifications of any violations and test results.

Other models provide full-featured alcohol interlock support with close-range transmission capabilities, such as Bluetooth® and Wi-Fi®, with optional GPS integration.

Fleet monitoring solutions

L series interlocks can be integrated with existing telematics systems, recording details of the date, time, and breath test result for each event, as well as optional information such as GPS location and driver's photo.

	Bluetooth®	Wi-Fi	GPS	GPRS	Camera	Integration with telematics
LT					optional	optional
LC	✓	optional (will include GPS)	optional (will include Wi-Fi)		optional	✓
LM			✓	✓	✓	

If driver monitoring is preferred rather than blocking the vehicle starting mechanism, L Connect is a handset-only solution specially designed for direct integration into telematics systems and taxi meters.

Secure data handling

Events are logged in both the handset and the ECU, which can be downloaded remotely and accessed through a central database via AlcoFleet™ software. Data transfer is also possible via cable through a download station. Event log files and communication are protected with AES 128 bit encryption standard for security of the memory and the transmission of data files.

Attempts to tamper with the ECU or its installation into the vehicle may still be detected and recorded in the memory of the ECU with the handset disconnected. Flash memory preserves the event log when the vehicle battery is disconnected.

Optional security measures

Focus™ camera integrates with L series to take an image of the driver at the time of the test. The device triggers the mounted camera to provide positive identification each time a breath sample is given, storing the time-stamped image.

GPS integration with ALCOLOCK L series ECUs records the coordinates of the location at which the breath test was performed.



Quality engineering

Engineered to withstand the rigors of the vehicle environment, including dust, vibration, humidity and extreme temperature. Manufactured according to TS 16949 quality standards and conformity of production norms.



Sensor
Dual, electrochemical sensor



Specificity
Alcohol only; no response to ketones or hydrocarbons



Range of measurement
0 to 500 mg/dL



Analysis time
5 to 25 seconds



Recycle time
10 to 30 seconds



Accuracy
±5 @ 50 mg/dL



Display
OLED



Operating temperature
-45 °C to +85 °C



Operating voltage
12 and 24 volt DC



Calibration
ALCOSIM™ breath alcohol simulator or equivalent



Dimensions
140 mm x 50 mm x 25 mm



Weight
105 grams



Wireless options
GPS and GPRS



Certification
US DOT (NHTSA) and CENELEC EN 50436 Parts 1 and 2