



ALCOHOL COUNTERMEASURE SYSTEMS

ALCOLOCK™ LR



Alcohol Interlock Technology

The ALCOLOCK LR device features an interactive handset used to perform breath alcohol tests and communicate with the driver, and an electronic control unit that connects to the power and control circuits of the vehicle.

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Anti-circumvention

Breath signature technology ensures that accepted breath samples come directly from a human subject and have not been filtered or altered before the alcohol sensor performs the analysis.

Dual Sensing

Breath alcohol analysis is conducted by two independent electrochemical sensors to enhance the reliability and accuracy of the measurement.

GPS Location

Events are recorded in memory with time, date and GPS coordinates to enhance compliance monitoring and to deter circumvention.

Biometric Monitoring

Facial biometrics and hum tone recognition are used to identify the driver as the person providing the breath sample.

Dual Event Logging

Events are logged in both the handset and the ECU enabling remote downloads while protecting the security of the event log file and enhancing anti-circumvention measures. Attempts to start the vehicle with the handset disconnected are still recorded in memory.

Secure Data Handling

Event log files and communication are protected with AES 128 bit encryption standard for security of the memory

and the transmission of data files. Flash memory preserves the event log when the vehicle battery is disconnected.

Wireless Data Transmission

Event log data is automatically transmitted from the ECU whenever the vehicle comes in range and is authenticated by a Wi-Fi base station. Jurisdiction authorities can access the data online via a secure network application.

Quality Engineering

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

Certification

The ALCOLOCK LR device meets or exceeds the Australian, Canadian, European (CENELEC) and US DOT (NHTSA) norms for alcohol interlocks for compliance monitoring.

Specifications

Size:	140 x 50 x 25mm
Weight:	105 grams
Sensor:	Dual, electrochemical sensor
Specificity:	Alcohol only; no response to ketones or hydrocarbons
Operating Temperature:	-45° C to +85° C
Initial Test:	30 sec
Breath Sample:	5 second moderate and continuous breath sample
Analysis Time:	5 to 25 seconds
Recycle (Recovery) Time:	10 to 30 seconds
BrAC Readout Format:	Tri-colour LED (Pass, Warn, Fail)
Range of Measurement:	0 to 1.00 mg/L
Accuracy:	± 0.02 @ 0.20 mg/L
Display:	OLED
Automatic Power Down:	Programmable
Mouthpiece:	Elliptical (model: 95-000145)
Calibration:	Alcohol Reference Solution
Operating Voltage:	12 and 24 volt DC
Other:	GPS and Wi-Fi 802.11 BGN

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