

RELIANT™ EMU

Electronic Monitoring Unit

Available through:



Alcohol Countermeasure Systems

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Designed in Canada by
Alcohol Countermeasure Systems Corp



Warranty

All ACS breath alcohol testers 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 breath alcohol tester.

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Simple to use, security you can trust

RELIANT EMU (Electronic Monitoring Unit) is a portable breath alcohol tester connected to a smartphone through a proprietary application for communication with a central database for electronic monitoring of subjects.

The device uses the smartphone cellular and Bluetooth connectivity together with its image capture and geo-localization functions to provide remote supervision that provides subject tracking, biometric verification and alcohol monitoring with online scheduling, messaging and remedial intervention.

Applications

RELIANT may be used in electronic monitoring programs for subjects on pretrial, parole, probation or court order to observe alcohol-free behavior in community supervision, home confinement or 24/7 applications.

Simple enrolment

The subject is enrolled online, the App is installed in the smartphone to provide secure communication with the central database, and the EMU is registered to the program to accredit the breath alcohol test results.

Anytime, anywhere

Subjects may follow their work and life schedule while being alerted to provide breath tests with images on a random or fixed schedule.



Interactive operation

RELIANT engages the subject to view messages, appointments and maintain monitoring schedules that are entered into the client file with connection to the central database. Case management officers may amend schedules accordingly.

Biometric verification

RELIANT captures an image of the subject during the breath sample and uses highly robust facial recognition technology for subject verification.

Electrochemical sensor

RELIANT uses a high performance electrochemical (fuel cell) sensor for breath alcohol measurement that provides rapid response and resilience to drift, ensuring long term reliability and evidential accuracy.

Detection thresholds

RELIANT will record the results of each breath sample and may be configured to send alert messages when the alcohol level is at or above a preset level: eg, 0.010, 0.020 or 0.030 g/dL.

Daubert standard

RELIANT is programmed to require a series of additional breath tests when breath alcohol is detected above the threshold level to confirm the presence of alcohol and the validity of the breath alcohol measurement.

Geo-localization

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

Continuous monitoring

The RELIANT App provides the link to the central database through the smartphone cellular connection to maintain client schedules, to report on compliance, to provide instant messaging and to enable continuous supervision.

Memory

The RELIANT App maintains the client scheduling, messaging and subject identification in the memory of the smartphone while all event data is transmitted to the central database for secure storage and access by case managers.

Quality engineering

RELIANT is designed and manufactured by Alcohol Countermeasure Systems, a leader in breath alcohol testing technology and certified to quality standards IATF 16949, ISO 9001, ISO 14001, ISO/IEC 17025 and ISO 17034.



Sensor
Electrochemical



Specificity
Alcohol only; no response to ketones or hydrocarbons



Range of measurement
0 to 250 mg/dL



Analysis time
5 to 15 seconds



Recycle time
10 to 30 seconds



Accuracy
 ± 5 @ 50 mg/dL



Display
Colour LED for device status



Operating temperature
 $+15$ °C to $+48$ °C



Battery
Two AA alkaline batteries



Battery life
1,000 tests



Calibration
ALCOSIM™ breath alcohol simulator or equivalent



Dimensions
140 mm x 59 mm x 26 mm



Weight
147 grams