

# Lifesafer FC100 Ignition Interlock

The Lifesafer ignition interlock combines breathalyser technology and sophisticated micro-electronics in a product designed to control drinking and driving.



## Introduction

The Lifesafer is installed in a vehicle in a way that links it to the ignition, power and other on-board systems. Before a Lifesafer-equipped vehicle can be started, the intended driver must pass a breathalyser test. If alcohol is detected above the “fail” level, the driver will effectively be locked out.

## Running Retest

The Lifesafer also features a “running retest”. Once the vehicle has been started, the Lifesafer will require additional breathalyser tests at random times as long as the engine is running. The intervals within which random retesting occurs are programmable.

In the event of a missed or failed retest, the Lifesafer can be set to sound the vehicle’s horn (optional) until the driver pulls off the road and shuts off the engine. Once the engine has been turned off the Lifesafer will enter a “lockout” condition, meaning that the driver will have to wait awhile before attempting another breathalyser test. The duration of this lockout is programmable.

## Data Log & Calibration

The Lifesafer has a built-in data logger that records all breathalyser test results (including date, time, and breath alcohol concentration), together with a variety of other events. This information is stored on a memory chip for retrieval during scheduled service. The data logger’s memory has an independent power supply to guard against loss of information in the event of an interruption in power from the vehicle itself.

Lifesafer clients typically contract with an interlock service provider to carry out regular calibration checks, retrieve and review stored data logger information, and supply detailed compliance reports.

The breathalyser data logger component of the Lifesafer is fully detachable to facilitate scheduled service on a “mail-in exchange” basis if desired. Prior to the date fixed for service, a calibrated unit is sent to the client. Upon receipt, it is substituted for the existing unit and the existing unit is sent back to the service provider.

It should be noted that non-compliance with scheduled service requirements will result in a “lockout” condition that cannot be reversed until the Lifesafer is serviced or replaced. This is to ensure that the unit is calibration checked regularly to maintain accuracy.

## Anti-circumvention

The Lifesafer includes a wide range of anti-circumvention features to deter tampering, attempts to fool or bypass the device, or other forms of misuse. Depending on the option settings selected, the unit can be programmed to log certain events as violations and, if desired, to recall the vehicle for unscheduled service. Some of these events might include starting the vehicle without passing a breathalyser test, registering a high BAC level, and failing to take a retest.



## **LIFESAFER FC100 - SPECIFICATIONS**

Size:	15.25 cm x 5 cm x 3.8 cm (hand module) 5 x 7.6 x 4.5 cm (relay module)
Weight:	Hand module - 177 grams Relay module - 347 grams
Sensor:	Electrochemical (fuel cell)
Accuracy:	±0.005 at 0.02% BAC
Smoking caution:	Wait 5 minutes
Drinking (alcohol consumption) caution:	Wait 15 minutes
Number of Tests:	Unlimited within calibration every 147 days
Operation in ambient temperature:	Reliable in extreme temperatures from -45° to 85°
Humidity:	10% to 90% RH
Breath Sample:	5-second moderate and continuous breath sample
Voltage Range:	12 VDC
Data Logging:	4,000 events
Compliance:	Certified to Australian Standard AS 3547

### **Optional Equipment**

Additional mouthpieces

### **Warranty**

Lifesafes FC100 ignition interlocks are warranted to be free from defects in workmanship and material for one year from the date of installation. Guardian will replace or repair any unit or part that in its judgment is found to be defective, providing that the defect has not been caused by misuse or mishandling. Units in warranty must be properly packaged and shipped prepaid to Guardian.