

## Funcional Description

### V7 Information for Homologation

November 29, 2007

A) Rough function of the Alcotest, what is the function of the different switches/LED

Alcotest is a mobile alcohol breath analyzer. Main functions are:

- Analyze breath alcohol concentration and pass/fail according to the set limits
- Before test, transmit RF signals regarding ready and availability of test
- After pass test, transmit RF signal to the car to allow the car start
- In addition to the RF signals, indicate status, power and test results through LED's and buzzer

LED description

Status	LED left (Power)	LED Middle (Result)	LED right (Status)	Description
High power	Green			
Low power	Yellow			
Very low power	Red			
Charging	Green blink			
Preheat		Off	Yellow blink	Unit getting to ready for test
Abort			Red blink	
Ready			Green	
Approved		Green	Off	BAC<0.1mg/l
Approved with warning		Yellow	Off	0.1<BAC<0.2
Not approved		Red	Off	BAC>0.2

B) How often the Alcotest transmit

Each time the Alcotest changes state ( from preheat, to ready to user test results) or when the Tx button is pressed. Approximately up to 5 Tx per car start

C) Duty cycles

320ms each Tx

D) what kind of data is transmitted at what time

5 bits data simulating the KIR push buttons at a time

E) Necessary voltages

Internal battery 2x AA NiMH @ 1.2V or input voltage 12V with charger, 3V to KIR

F) Events within t<30s and t>30s

- Preheat state immediately after power on
- Ready state after few seconds

- After that user has to blow and analysis is done before sending another message.

Part number and label information:

- Homologation certificate owner: ACS
- P/N is the certificate owner's p/n ACS 79 -006702 ( VCC 31201015 ) optional
- FCC number xxx79 -006702
- CE marking

Note:

Alcoguard V7 Handset Assembly 79-006702  
Complete Alcoguard V7 Kit ( including handset, cradle and power cable ) 79 -006700

G) Label Information

**ACS**  
**79-006702**  
**FCCID: VYU79006702**  
**CE**

**Owner Manual:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.