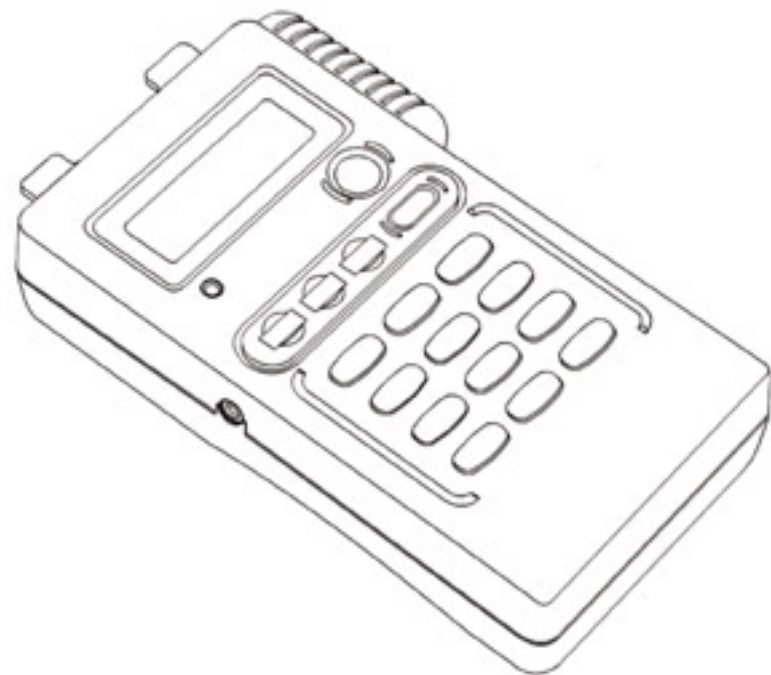


ALCOTECTOR[®]

MODEL C2H50H



Guth Laboratories, Inc.
Website: www.guthlabs.com



Well Company
Website: www.well-co.com



C4 Development Ltd.
Website: www.c4.com.hk

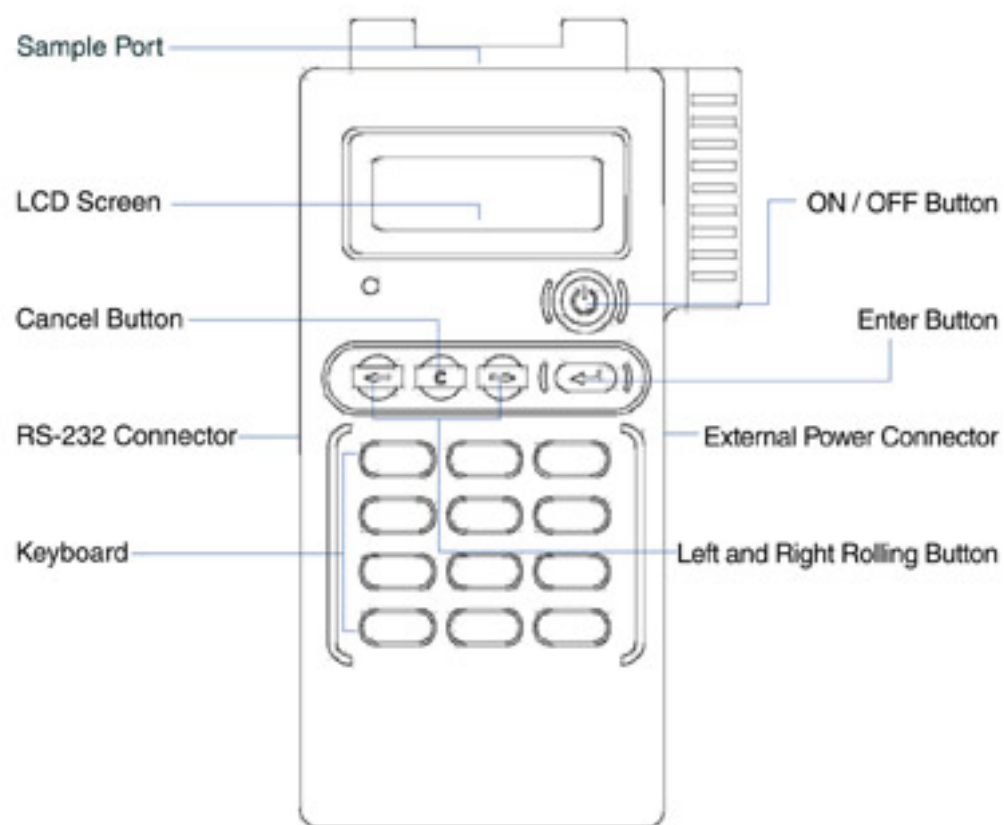
Instructions Manual

P. 1

TABLE OF CONTENTS

INSTRUMENT FEATURES	03
INTRODUCTION	04
PER-TEST CONDITIONS	04
OPERATING INSTRUCTIONS	05
KEYBOARD	07
OTHER MENU FUNCTIONS	08
PRINTER	10

P. 2



OPERATOR NEEDS TO READ THE INSTRUCTIONS MANUAL AND BECOME FAMILIAR WITH THE ABOVE FEATURES BEFORE USING AND RETAIN THE MANUAL FOR FUTURE

INSTRUMENT FEATURES

PLEASE REFER TO DIAGRAMS ON PAGE 2

1. DISPOSABLE MOUTHPIECE

For sanitary reasons each mouthpiece is individually packed and sealed. New mouthpiece should be attached to sample port of the ALCOTECTOR for each test to prevent any contamination from the previous sample. Attach the mouthpiece to the sample port of the ALCOTECTOR.

2. LCD DISPLAY

A highlighted LCD display that will display corresponding instructions and alcohol concentration of the subject being tested. Ability to change the contrast of the display for easy readout for the operator depending on lighting conditions.

3. ENTER BUTTON

Use the **ENTER** button to manually take a sample if subject is unable to provide a valid sample when "MANUAL TEST" is highlighted on the display. The **ENTER** button is also used by supervisors to access various commands in the menu screen.

4. ON/OFF BUTTON

Press the **ON/OFF** button to turn the ALCOTECTOR on or off.

5. EXTERNAL POWER CONNECTOR

Connector for 12v car (cigarette) adapter or optional 12v AC power transformer.

6. RS-232 CONNECTOR

Use an RS-232 cable to upload subject tests stored in the ALCOTECTOR memory and access supervisory menu functions.

7. Key Board

Use keyboard to input the character into the ALCOTECTOR.

8. Cancel Button

Use the **CANCEL** button to delete the character you inputted or cancel the action you did.

INTRODUCTION

The ALCOTECTOR is a state of the art instrument used to detect Ethyl Alcohol from a valid breath sample. The ALCOTECTOR uses an electrochemical fuel cell to measure the concentration of alcohol from the sample of expired breath from a human subject. If alcohol is present, a corresponding voltage is generated from the fuel cell, which is proportional to the alcohol content of the sample provided by a human subject. This voltage is then sent to the CPU and converted to a subject's BAC which is then displayed on the display of the ALCOTECTOR.

Instrument Features:

1. Test record storage can be as high as 2000 entries depending on version of software being used. Capability of uploading subject tests for record keeping.
2. Use of the disposable mouthpiece to prevent foreign matter from entering the ALCOTECTOR .
3. A hard metal case is included for storage of the ALCOTECTOR and accessories for easy transport. When not in use, the ALCOTECTOR should be stored in its metal case to prevent damage from occurring.
4. Ability to run as often as needed. Recovery time between tests on average is 30 seconds between positive tests.

ALCOTECTOR will indicate battery power by displaying a picture of the battery and level of power left in battery. A cigar plug adapter is also included for use by the operator.

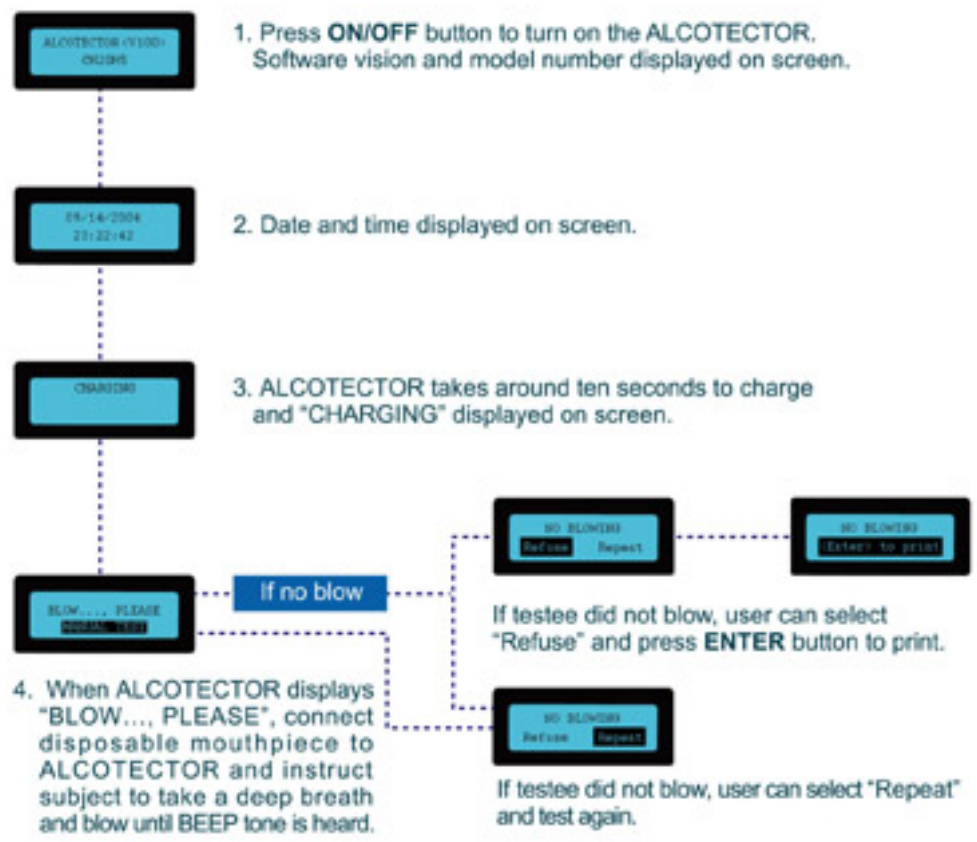
PRE-TEST CONDITIONS

Operating temperature range of the ALCOTECTOR is -5°C to 45°C. Use of the ALCOTECTOR within this temperature range will limit condensation from a subjects breath to insure an accurate reading from a breath sample.

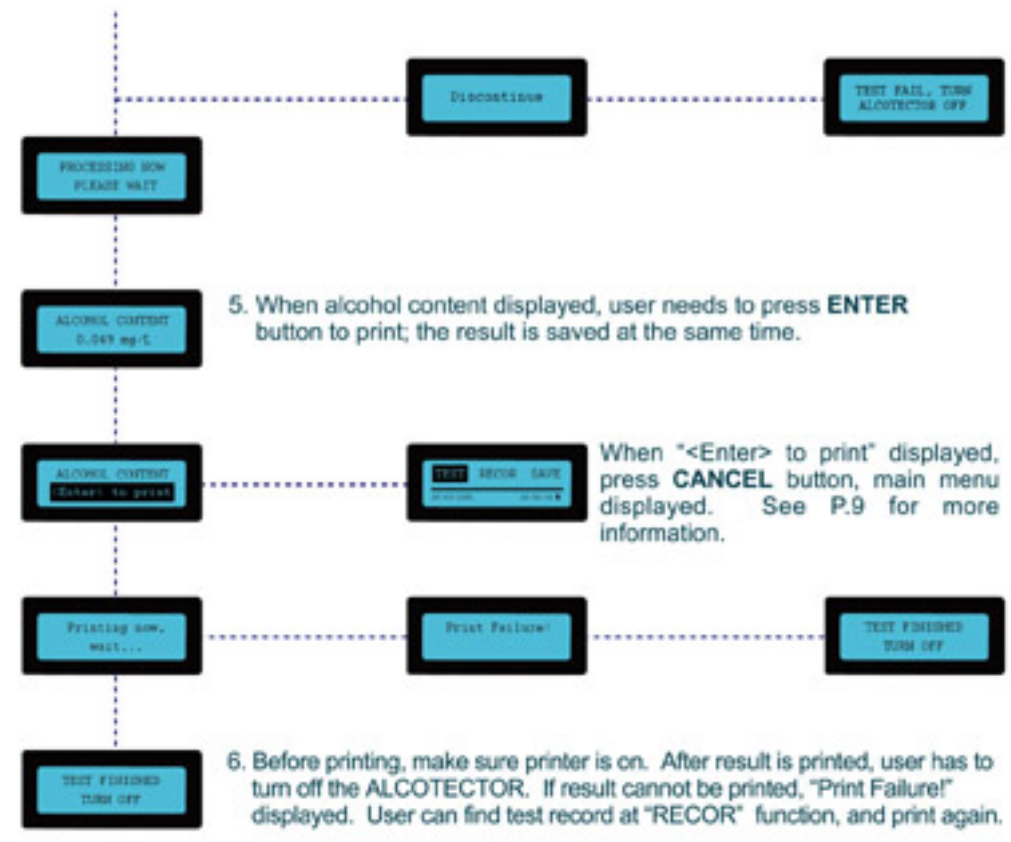
It is recommended that the operator to observe the subject for about 20 minutes before administering the breath test to insure that nothing is consumed or expelled from the mouth of the subject. Following this procedure will eliminate readings from mouth alcohol.

Eliminate all sources of Radio Frequency interference (i.e. transmitting portable radios; cell phones; etc.) when conducting a subject test with the ALCOTECTOR.

OPERATING INSTRUCTIONS(Keyboard not in use)



OPERATING INSTRUCTIONS(Keyboard not in use)

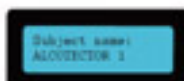


P.7

KEYBOARD



To activate "Keyboard" see P. 9. When "Keyboard" has been activated, user should see the following screen after turn on the ALCOTECTOR.



To input letter and number:

- *A* = press number 2 two times
- *L* = press number 5 four times
- * * = press number 1 two times
- *1* = press number 1 one time

To cancel input letter or number, just press **CANCEL** button.

P.8

OTHER MENU FUNCTIONS

To access supervisory functions, the C2H5OH must be turned off. Press and hold the **RIGHT ROLLING** button while turning the C2H5OH on. After several seconds, the menu screen will appear on the display. To access a menu option, simply press the **FUNCTION** button until the function you want to perform is highlighted and press the **ENTER** button. A description of the menu functions is provided below.



Date

Clock



Battery level

RECORD

C2H5OH will display all records. Use **LEFT** or **RIGHT ROLLING** button on keypad to display previous or later test records. When finished reviewing records, press **CANCEL** to return to main menu.

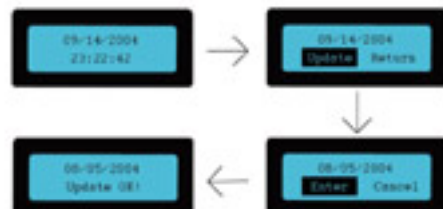


OTHER MENU FUNCTIONS

SAVE

Using the RS-232 cable to upload test records from the C2H50H. Using available software to a spreadsheet on your computer.

TIME



To update the time, press the **ENTER** button. Highlight "Update" and press the **ENTER** button. Press the **FUNCTION** button to move the highlighted cursor to the number you want to change. Using the keypad displayed on your computer, change the date and time. When you finished, press the **ENTER** button and "Update OK" will be displayed.

SETUP

There are 4 options under the "SETUP" menu and can be selected by using the **FUNCTION** button to highlight the desired option.

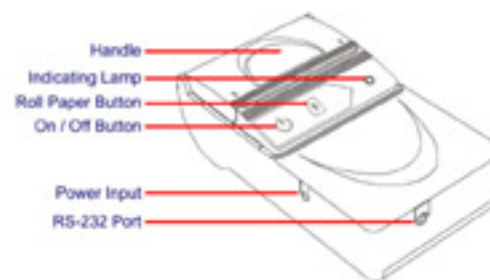
1. **ALERT CONC** : change the tone use this option to depending on the concentration level detected by the ALCOTECTOR.
2. **PRINT COPIES** : does not apply to the WAT unit as no printer is used.
3. **CONTRAST** : use this option to change the contrast of the display.
4. **KEYBOARD** : use or not use keyboard.
5. **PASSWORD** : use only by certified technicians to enter the calibration menu.

To use **SETUP** functions, please see "Master User Manual" or contact your local agent.

PRINTER

PRINTER

An RF-printer used with alcohol detector is a patent technology patented by Well Company, and we call this technology **WIRELESSPRINT**.



CAUTION! Please use 4 pieces of rechargeable batteries. Batteries capacity no less than 1800 mAh. Customer can buy a high quality rechargeable battery on www.well-co.com. The rechargeable batteries that power the ALCOTECTOR or printer must be disposed properly and may need to be recycled. Refer to your battery's label for battery type. Contact your local recycling centre for proper disposal methods. Never dispose of batteries in a fire because they may explode.

PRINT

If a printer is equipped, press the **ON/OFF** button on printer, and the indicating lamp should turn on. Make sure the S/N number on the printer is same as C2H50H. Press **ENTER** key, printer will print current test result automatically. When printing is finished, screen will display "test finished, turn off". To turn off the printer, press and hold the **ON/OFF** button on printer, until the indicating lamp flash and off.

CHANGE PAPER

To change paper, pull the handle. When inserting a new roll of paper, make sure glossy side of paper is kept close to dentation.

BATTERY LIFT

Four full charged 1800mAh rechargeable batteries can print around 30 meters paper. When battery power is under the standard output power, the printer indicating lamp signal three flash a train.

CABLE CONNECTION

When wireless printer cannot receive the signal from C2H50H, use printer cable and connect the printer with C2H50H by using the RS-232 port.