

Professional Breath Alcohol Analyzer

With Fuel Cell Sensor

FiT239-Color



IMPORTANT: Many factors (e.g. environment gas residue, smoke & various smell in human mouth, etc...) may affect the Blood Alcohol Concentration (BAC) level, so the Readings are For Reference Only.

Neither the reseller nor manufacturer accept any liability arising from the use of this unit

DO NOT drink before you drive!

Thanks for purchasing our FiT239-Color Fuel Cell Digital Alcohol Analyzer. FiT239-Color gives you a digital indication of your breath alcohol content and thus your possible concentration of intoxication. To achieve the high accuracy, user should study this manual carefully and any use of the FiT239-Color requires full understanding and strict observation of these instructions.

Declaration

Please read this manual carefully before using.

Liability for proper function or damage

Never unscrew the FiT239-Color **Warranty not valid** if any screws had being loosened or warranty label had being broken. Serviced or repaired by personnel not employed by FiT Service centre or authorized by FiT or if the instrument is used in a manner not conforming to its intended use.

Maintenance

Repair of the FiT239-Color should only be carried out by trained service personnel.
We recommend an authorized FiT professional breath alcohol tester Service Center.
Only authentic FiT spare parts may be used for maintenance.

Intended Use

- * Don't put this product in high temperature, high humidity or high dust environment.
- * Don't knock this product, especially not pressing the TFT-LCD by force.
- * Don't dismantle the important parts and use the alcohol, thinner or benzene to clean the surface of the product and its components.
- * Not use in the area prohibiting using of wireless devices.
- * Not use in the flammable and explosive environment.
- * Please use the touch pen when doing the touch screen calibration
- * Before use, please charge up the Handset by provided accessory charger.

General Conditions

- Use a new mouthpiece for each person being tested.
- No alcohol and solvent vapors (disinfectants) in the ambient air.
- Do not allow a high alcohol concentration to reach the sensor. For instance, from drinking alcohol, eating alcohol containing foods or rinsing the mouth with alcohol mouth washer just before measurement.
- Keep away from the antenna of mobile phones or transmitters.

Conditions for Tested Person

To begin, rinse out your mouth with water or non-alcoholic drinks before using the unit. Abstain from smoking (for 10 minutes) or drinking (for at least 15 minutes.) Actual residues of alcohol in the mouth may enhance the measured values. This may also occur by aromatic drinks (e.g. fruit juices), alcoholic mouthwashes or mouth sprays, medicines and drops, as well as by burping and vomiting.

Breathe evenly and normally before the test.

IMPORTANT:

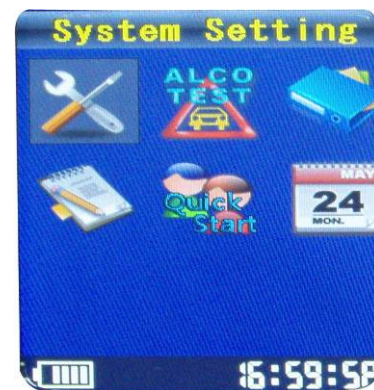
DO NOT EAT, DRINK, OR SMOKE FOR 20 MINUTES PRIOR TO UNDERTAKING A TEST. FAILURE TO DO SO MAY IMPAIR RESULTS AND DAMAGE THE UNIT.

REMEMBER: NEVER DRINK & DRIVE – THE ONLY SAFE LEVEL IS ZERO

NB: these instructions must be read before use.

Operation instructions

(User can use either normal keys or touch screen for key operation)



Power up

- ① ☐ Install the rechargeable battery (Nokia standard) into the battery compartment.
- ② Press the “OK” key 3 seconds to turn ON the tester, then enter into the main interface. Press the “OK” key few seconds (above 3 seconds) to turn OFF the tester.

1. Quick Start

- 1.1 Eventually insert a new mouthpiece in correct orientation.
- 1.2 Press the “Quick Start” icon on the main menu, The LCD will show “Discharging” and then shows “Please wait” together with timer while warming up. The LCD shows “Ready”, user can start the alcohol test. Insert the mouthpiece into chamber inlet. Blow evenly into the mouth piece for about 6 seconds and a continuous sound tone will be heard for announcement.
- 1.3 If the breath sample flow is too hard or too soft, a respective message will be shown on the display. Acknowledge the message by pressing the button "OK" and then return the main menu.
- 1.4 If the breath sample is taken successfully, “Analyzing” & “Please wait” will show on the display immediately. The machine will analyze the sample. It will then show the test result together with the number the test after sample analyzing..
- 1.5 Press “continue” icon to start another test or press “return” icon to return back into the main menu; Press “Record” icon to check record details.
- 1.6 Remove and change a new mouthpiece after each test.

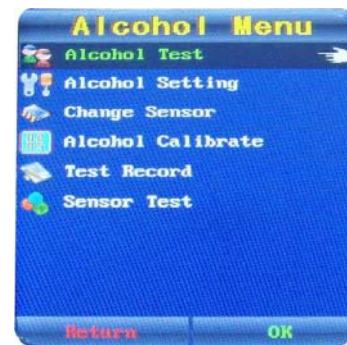


2. Alcohol Menu

2.1 Alcohol Test: Formal test requires all detailed information (for example, police used tester)

User can input the user name and Vehicle number before the alcohol testing.

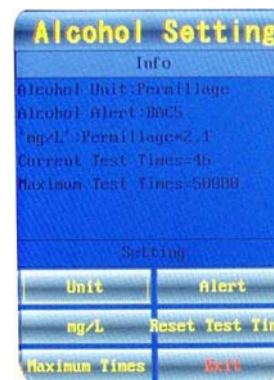
- 2.1.1 Select the “Alcohol Test” in the main manual and enter into the alcohol test mode.
- 2.1.2 Input the user name by clicking the alphabet on the LCD or use navigating keys & “OK” key to select
- 2.1.3 Input the vehicle number by clicking the alphabet/number on the LCD or use navigating keys & “OK” key to select
- 2.1.4 After input all the information. The tester will enter into the alcohol test procedure.
- 2.1.5 Repeat the 1.1 – 1.6 and do the breath alcohol test.
- 2.1.6 The reading contains the test number, date, concentration, tester name etc. If connect to the desired printer, press “print” icon to print out the test record under the “record” review mode.



2.2 Alcohol Setting (Service Center only):

Select the "Alcohol Setting" menu but a supervisor password is required. Key in the password and it will then show the sub-menu as following:

Alcohol Unit, Alcohol Alert, "mg/L: Permillage",
Reset Test Times and Maximum test Times.



Alco Unit Setup

Set the unit to Permillage (%BAC), Percent (%BAC)and mg/L.

Alco Alert Setup

Alert level: BAC2(0.2%BAC) , BAC3(0.3%BAC) , BAC5 (0.5%BAC)and BAC8 (0.8%BAC)

"mg/L "Setup

Mg/L vs promile convention setting: 2.0,2.1,2.2 and 2.3.

Reset Test Times:

Reset the test times to 0. After done the calibration, the number of test will reset to zero and alcohol test can be continued. If the LCD display shows "The period of validity is overtimes!", it need to reset the test times.

2.4 Alcohol Calibrate: enter the calibration mode by input the supervisor password. Only perform this function by FiT or FiT Authorized service center

2.5 Test record:

- 2.5.1. Review all records by press "Back" or "Next" icon.
- 2.5.2. Goto: input the test number to search the test result
- 2.5.3. Print: connect to the printer to print out the test record.
- 2.5.4. Clean all: delete all the records.
- 2.5.5. Exit: return to previous menu.

3. System setting:

Press the "OK" enter to the system setting mode.

6 sub-menus under system setting mode:

Press "↑"&"↓"to select the sub menu , then press the "OK" key enter

into these sub menu. It will return to the main menu when touch "return" on the LCD.

3.1 Date & Time Setting:

User can set the date and time and confirm by press OK

3.2 Display Setting: User can set the background color and background image.

3.3 Language: English and Chinese option.

3.4 Set User Password: User can set the user password. The minimum of the user password setup is one digit and the maximum as eight digit. After setting the password, all menus require the password to access(except password is 00000000).

3.5 Power Manage: set the power auto off time and backlight

3.6 Touch Screens Calibrate:

When the touch screen setting shift, it can be re-calibrated. If the touch-screen has been corrupted, press and



hold the screen for about 5 seconds in the system adjustment mode, it will automatically enter the touch screen calibration menu. The red “+” tag shows alternation in the white screen, follows and touches the five “+” tag. After setting the machine will automatic return to main manual.

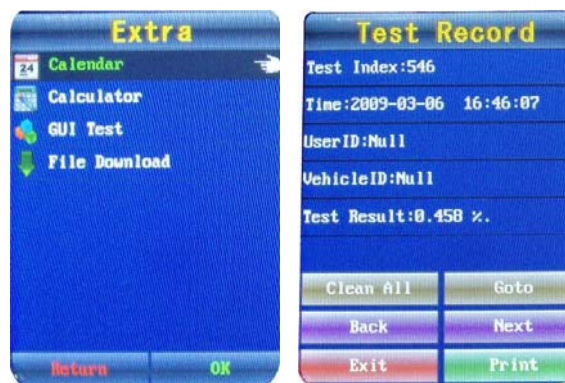
4. Extra

4.1 Calendar: Shows Calendar details

4.2 Calculator

4.3 GUI Test.

4.4 File Download(Caution: if this mode work is activated, it can only be terminated by cutting off the main power.)



5. Test Record

Using the provided pen to move the “Test Record” and press the “OK” key enter into this mode..

Press the “Back” and “Next” key on LCD or press the “←” and “→” key to recall all test record. If you need the print any record only touch the “Print” on the right.

6. Software Update (only suitable for FiT service centre)

Linking the PC with the connecting wire and updating to the new software version. The normal user can’t use this function. Caution: exit this faction, can’t support the touch faction.

7. Specification

1. LCD : TFT 2.4” TFT QVGA display with touch panel
2. Range : 0.0‰BAC to 5.0‰BAC , Accuracy : ±0.1‰BAC
3. Voltage: 3.7V Li-battery.
4. Temperature Range: From -10°C to +40 °C, for optimum operation
5. Dimension: : 128*62*30 (MM)
6. Agency approved : CE/EMC

8. Calibration:

Does the FiT tester require calibration? Yes. While some ‘novelty’ breathalyzers cannot be recalibrated, serious devices such as the FiT tester must and can be recalibrated to ensure consistent accuracy. Consumers should be wary of units that cannot be calibrated as their accuracy will eventually waver. First innovation Technology provides a calibration service which can be organized by calling +852 31780405 or by e-mailing support@group-fit.com

How often should I re-calibrate the FiT tester?

The FiT tester can remain accurate for 6 months of use. The more frequent the use, the more the unit will need to be calibrated.

According to D/N31051, we recommend recalibration on a 6 monthly (or earlier) basis to ensure maximum accuracy.

NB* It is important to observe the recommended 20 minute pause without consuming any alcohol, cigarettes or anything else before testing. Failure to do this can shorten the life of the sensor. In such cases, the sensor can be permanently damaged or may need more frequent calibration. This user manual should be read carefully for information on caring for the unit.

Many factors (e.g. environment gas residue, smoke & various smell in human mouth, etc...) may affect the BAC level, so the readings are For Reference Only. Neither the reseller nor manufacturer accept any liability arising from the use of the unit. Don't drink before you drive!