

Alcohol Breath Tester Operational Manual



Model: FC200

Express Diagnostics Int'l, Inc.
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
Introduction

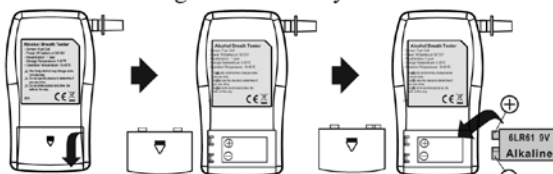
- The device is intended to measure alcohol in the human breath. Measurements obtained by this device are used in the diagnosis of alcohol intoxication.
- The accuracy of this device has been established at a Blood Alcohol Concentration of 0.008 and 0.032 % BAC.

Preparation for Correct Measurement

- Before testing, wait at least 15 minutes after your last drinking.
- Only use the device in a temperature 0°C ~ 40°C or 32°F ~ 104°F.

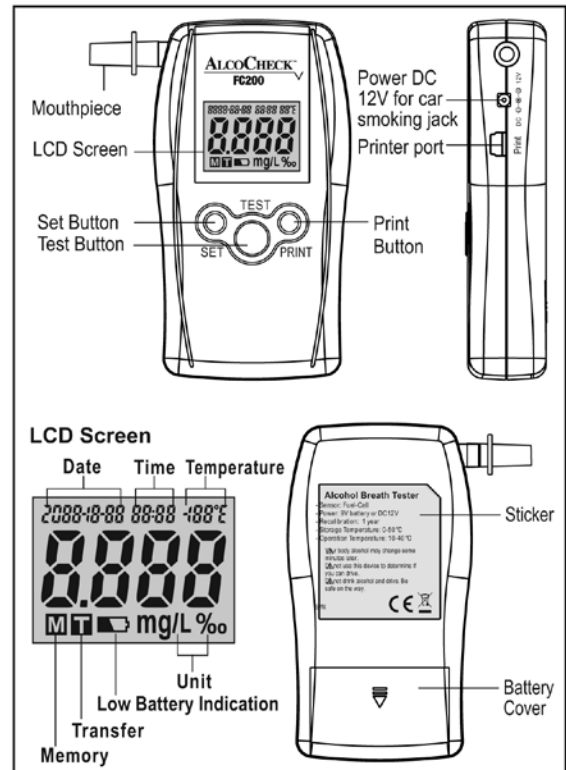
Power Supply

- Slide back the battery cover on the back of the device.
- Insert 1 piece 9V battery, making sure that the “+/-” symbols are correctly.
- If the power is too low, the unit may display a battery symbol “” and the device may not use correctly. You need to change a new battery.



- The device can also be used from DC12V input.

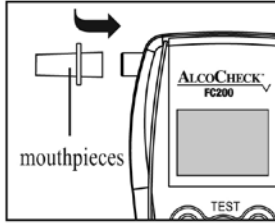
Description of parts



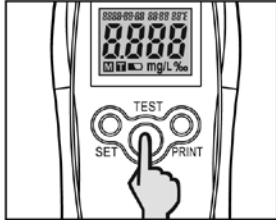
Operation and Setup

Test mode

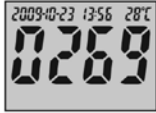
- Insert one of the mouthpieces into the 'blow in' hole.



- Press and hold the TEST button until power on. Release it after power on.

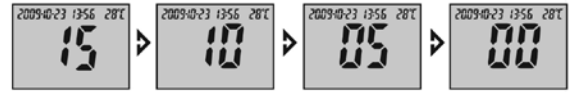


- LCD will display test counter before starting countdown.

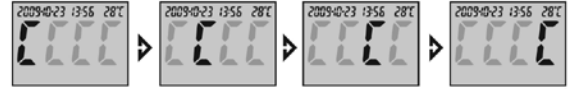


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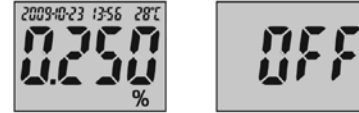
- The WAIT displays on the screen and countdown 15, 14, and 13... to zero.



- The BLOW displays on the screen, and displays "C" with flashing. Take a deep breath, blowing steady into the mouthpiece until beeping stops (about 6 seconds).



- Your test result will be displayed on the screen for 20 seconds.



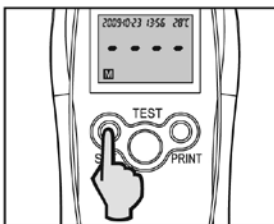
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- It will show error when incorrect blowing. Refer to the chapter of the "Errors and Troubles" in detail. The device will be turned off after indicated error.

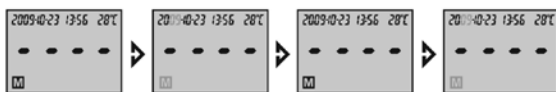


Setup Date/time

- Press SET button for 2 seconds to enter the SETUP mode.

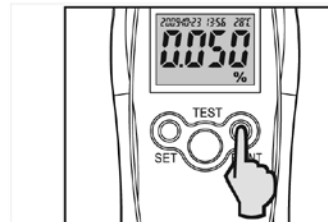


- Follow up the screen with flashing position to select the date or time.

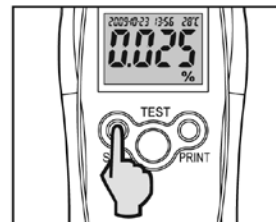


- Press PRINT button to change the date or time.

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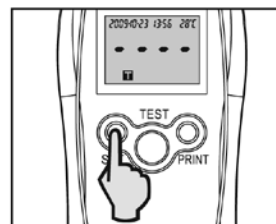


- Press SET to go to next stage.



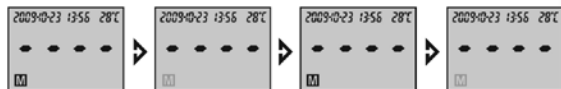
Recall memory

- Press SET button for 2 seconds to enter the SETUP mode.

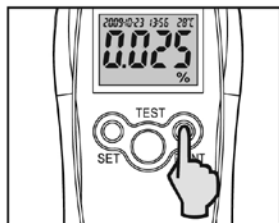


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- Follow up the screen with flashing position to select the MEMORY mode “M”.

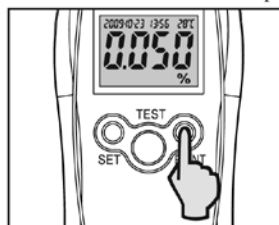


- Press PRINT button to recall the memory for last 10 data.



Print

- Connect the specific portable printer to the device.
- There are 2 ways to print out the last test result as below:
 - Press PRINT button 2 seconds after tested and displaying the test result.
 - Press PRINT button 2 seconds to power on the device and print out.



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Important notes

- Before testing, wait at least 15 minutes after your last drinking.
- The blowing time must be enough until beeping stops.
- It may show ERR (error) if none, interrupt or shorter blowing.
- If the device changes temperature suddenly, wait some minutes to use.
- Only use the device in a temperature 0°C ~ 40°C or 32°F ~ 104°F.
- The car smoking plug will terminate the power of battery when plugging.
- Recalibration interval: 12 months
- Never store the device in a corrosive gas room.
- Never store the device under sun exposure area.
- Avoid dropping or subjecting the device to a strong shock.

Precautions

- Your blood alcohol content (BAC) may change some minutes later.
- You should have your alcohol tester calibrated every 12 months. Failure to do so may cause your readings to be inaccurate.

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Accessories

- Mouthpieces
- Car smoking plug DC 12V adapter
- Portable bag

Error Message

Error message or Troubles	Description	Remarks
Err	- Blowing unsteady or interrupt - Blowing less than 6 seconds - Blowing flow too weak - No blow during BLOW mode. - Change temperature suddenly	
Auto Off	- Low battery - Over the period of test	
Hi	- The blood alcohol content above the display range. - Display range: 0.300%BAC	
No display	- Press and hold the TEST button until power on. - Check the battery - Battery will be terminated by DC jack.	
	- Low battery indication - Need to change new battery - Use alkaline battery	
Alarm sound	- Blowing mode - Error message indication - Above alcohol set point	

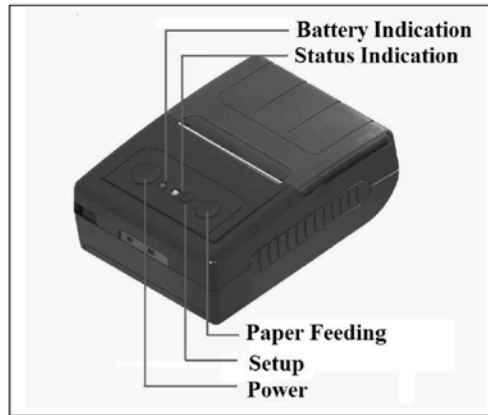
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Specifications

- European Fuel Cell Sensor
- Blowing time: 6 seconds
- Blowing flow: 10L/min
- Display range: 0.000-0.300%BAC
- Show “HI” if above the display range
- Accuracy: +/-0.005% at 0.05%
- Memory: 10 records
- 5 mouthpieces included
- Warm up time: 15 seconds
- Testing Time: 10 seconds
- Repeat test: less than 60 seconds.
- Audible sound alarm if above 0.05%BAC
- 4 digits display with status and backlight
- Power supply: 9V battery or DC 12V
- Battery for standard testing is about 500 times
- Low battery indication and auto power off function
- Operation: 0°C ~ 40°C or 32°F ~ 104°F.
- Store: -10°C ~ 50°C or 14°F ~ 122°F.
- Size: 126x69x29mm
- Calibration interval: 12 months
- Blowing pressure and interrupt detection

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Operational Manual of Thermal Printer



Button Description:

- Power: Press 3 seconds to power on or power off.
- Paper feeding: Control paper feeding.
- Setup: Factory use.

LED indication:

- Battery indication:
 - Green light: > 50% power
 - Red light: <30% power
 - Yellow light: <50% and >30%
- Status indication:
 - Green light: Normal operation
 - Red light: Error, such as no paper, too hot, cover open

Key Specifications/Special Features:

- Printing method: direct thermal line printing
- Printing speed: 60mm/sec
- Resolution: 203DPI
- Paper supplied: easy paper loading
- Character size: depending on the specific font loaded
- Each character: depending on the specific font loaded
- Printing Chinese character library: ASCII, Gb2312
- Barcode one-dimensional: UPC A, UPC E, code 39, code93, code 128, EAN 8, EAN 13, interleaved 25 (ITF), bar code
- Two-dimensional: PDF417
- Driver: Microsoft Windows
- Software development kit: Microsoft Windows
- Sensors paper: end sensors function
- Paper cutting: tear-bar
- Supports multiple languages
- Paper type: thermal paper roll
- Paper width: $58 \pm 0.5\text{mm}$ and $80 \pm 0.5\text{mm}$
- Diameter maximum: 40mm (1.57-inch)
- Thickness: $0.067 \pm 0.004\text{mm}$ (0.003 ± 0.0001 inch)
- Reliability thermal printer head: 50km
- Battery rechargeable: 500 times
- Communicate interface: serial RS232 -TTL
- Battery charger:
 - Input voltage: 100 to 240V AC, 1.0A (maximum 110VA)
 - Output voltage: 8.4V DC, 1.2A
 - Type: lithium battery
- Battery:
 - Output voltage: 7.4V DC, 8.4 to 6.8V DC choose
 - Capacity: 1,800mAh
 - Recharge time: 2.5h
- Temperature printer: -10 to 50°C (14 to 122°F)
- Battery: 0 to 40°C (32 to 104°F)
- Humidity printer: 10 to 90% RH, no condensation
- Battery: 20 to 70% RH, no condensation
- Size: 111 x 85 x 47mm