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GENERAL INFORMATION

Depending on the elements that comprise them and their structure, molecules absorb infrared energy at specific wavelengths. The detailed absorption spectra is often used to determine the type of chemical. The absorption at a specific wavelength of infrared energy is used to measure the concentration of a chemical per the Infrared Absorption Principle. This method is used by the Intoxilyzer 5000EN to measure the alcohol concentration in a breath sample.

The “optical bench” of the Intoxilyzer 5000EN comprises a Quartz iodide lamp, a lens, the sample chamber, a second lens, the filter wheel and detector. The filter wheel has five filters; one for reference, one for measuring alcohol and three for detecting interferents (chemicals other than alcohol). Infrared light hitting the detector is converted to an electrical signal. Each filter produces a separate signal. The instrument electronics tracks each signal as a separate “channel”. A drop in the electric signal from the detector is proportional to an alcohol concentration.

Initially, the instrument establishes a zero reference point for each channel by measuring the detector output when the sample chamber is filled with room air. During a breath test or simulator analysis (Cal Check), as the amount of alcohol vapor in the chamber rises, the amount of infrared light reaching the detector falls. The test mode sequence for the Kentucky Model Intoxilyzer 5000EN is A-C-A-B-A

A - Air Blank

C - Simulator Analysis (Cal Check)

A - Air Blank

B – Breath Sample

A - Air Blank.

To insure a proper test, a variety of checks are made on the air sample, the simulator sample, the breath sample, the reference channel and the interferent channels. If any of these checks do not meet specifications, the test is stopped.
EXTERNAL INSTRUMENT PARTS

1. **Breath Tube**
   A heated reinforced plastic tube through which the subject blows into the sample chamber.

2. **Mouthpiece**
   A disposable clear plastic trap which fits into the end of the breath tube, accepts the subject’s breath, and prevents unwanted substances from entering the instrument.

3. **Digital Display**
   A 15 character alphanumeric readout that relates which operation the instrument is performing, alerts the operator to required actions, and expresses Breath Alcohol Concentration (BrAC) results in grams per 210 liters of breath.

4. **Start Test Button**
   A push button switch (green) used to initiate a test, invalidate a test, attempt to correct an instrument error; or activate instrument from the stand-by mode.

5. **Power Switch**
   A push button switch (red) used to apply AC power to the instrument.

6. **Red Diode Light**
   Indicates the instrument is on and electrical power is being provided.

7. **Simulator Vapor Port**
   Adapter through which alcohol vapor passes from an attached alcohol wet bath simulator to the instrument’s sample chamber.

8. **Evidence Card**
   A formatted, multi-copy card that provides a printed record of the administered test.

9. **Power Cord**
   An 8 ft. cord that supplies power to the instrument.

10. **Serial Number**
    Located on the back of the instrument, (e.g. 68-#####).

11. **Modem Phone Jack**
    Located on the rear of the instrument to insert dedicated phone line. This feature allows the technician to contact the instrument by telephone.
**Light Source**
Quartz iodide lamp

**Chamber Lens**
A lens on each end of the sample chamber, which seals the chamber and directs the IR light.

**Sample Chamber**
The only location where the breath sample is exposed to IR light.

**Filter Wheel**
Rotating wheel which contains five IR light filters.

**Detector**
Converts the IR light energy to electrical energy.

**Photo Interrupter**
Devices which are used to monitor the filter wheel’s revolving speed and identify the filter sequence to the detector.
DISPLAY MESSAGES AND COMMANDS

The Intoxilyzer 5000EN breath analysis instrument visually communicates by displaying the following messages and commands. The messages and commands will “flash” to indicate the instrument expects a response.

“AIR BLANK”
Ambient air analysis, the instrument is purging the mouthpiece (when attached), external breath tube, internal breath tubes and sample chamber with room air. After the purge operation, the instrument will display the results. A reading of .000 indicates the air purge is complete and was successful.

“CAL CHECK ###”
During the calibration check, the sample chamber is filled with a standard alcohol vapor from an attached wet bath simulator. The instrument analyzes the vapor sample and then displays the simulated breath alcohol concentration in grams per 210 liters of breath.

“CMI INC. INTOXILYZER - ALCOHOL ANALYZER KY MODEL 5000 --- PUSH BUTTON TO START TEST”; “PUSH BUTTON” (flashing); “TIME ###HR ###MIN”; “DATE MM/DD/YYYY”
The instrument is ready for operation; you may begin a test by pushing the Start Test Button.

“DATE MM/DD/YYYY”
Indicates current date.

“DIAGNOSTIC OK”
The instrument did not find an error while performing diagnostic checks on its components and operational standards.

“INSERT CARD”
The instrument is ready for an evidence card to be inserted. Starting when this command appears, the operator has thirty seconds to insert the card.

“INTERNAL STD”
The instrument is verifying the established alcohol calibration standards.

“MEMORY FULL”
The instrument has reached its maximum memory capacity. No further tests are possible on that instrument. Operators should seek another testing instrument or offer an alternate alcohol concentration test to the arrested person. Notify the supporting technician so the memory data can be saved and the instrument initialized. Instrument will hold 120 tests.

“MEMORY NEAR FULL”
The instrument’s memory for recording tests is close to maximum capacity; this begins at test number 116 and continues until the completion of test 120. Notify the supporting technician so the memory data can be saved and the instrument initialized.
“NOT READY”
The instrument is purging the sample chamber, external breath tube, and internal breath tubes, initializing the computer, processor, and printer.

“PLEASE BLOW/R” (flashing)
Indicates the subject is not providing a proper breath sample. The words “PLEASE BLOW/R” will flash and a tone will sound every two seconds. The instrument is requesting the subject to blow properly into the mouthpiece.

“PLEASE BLOW” (not flashing)
Indicates the subject is providing a proper breath sample. There will be a constant tone at the same time.

“PLEASE BLOW” (flashing)
Indicates the subject has introduced breath into the instrument, but has stopped blowing and has not met the parameters to get a result.

“PLEASE BLOW INTO THE MOUTHPIECE UNTIL TONE STOPS”; “PLEASE BLOW/R” (flashing)
The instrument is ready for the subject to blow into the mouthpiece. Starting when this command appears on the display the subject has three minutes to provide an adequate breath sample.

“PRINTING” (flashing)
The results of the test are being printed on the evidence card.

“PRINTER CHECK”
The instrument is checking the movement of the printer head.

“PRINTER ERROR”
The printer is inoperative.

“PROCESSOR CHECK”
The computer is testing the output of the processor, the stability of the voltage signal, and the speed of the filter wheel.

“PROCESSOR ERROR #”
There are several possible processor errors. If a processor error occurs, the display will reflect a number related to that particular error.

“PROM CHECK ####”
The instrument is finding a check-sum of all program bytes and is comparing it to an internal check-sum.

“PROM ERROR ###”
An error has been detected in the instrument’s programming.
“RAM CHECK #”
The instrument is checking each byte in the random access memory (RAM) chip for possible failure.

“RAM ERROR”
A problem was detected within the instrument’s random access memory.

“RTC CHECK”
The instrument is verifying the time / clock operation.

“SUBJECT TEST. ####”
The analysis is complete and the instrument is displaying the subject’s breath alcohol concentration in grams per 210 liters of breath.

“TEMP CHECK”
The instrument is checking the temperature of the sample chamber.

“TEMP ERROR”
The sample chamber temperature is either too high or too low.

“TIME #### HR #### MIN”
Indicates local time.

“VER #### #### ####”
Identifies a portion of the instrument’s software.

“WARM UP PERIOD”
After activation from the stand-by mode, the instrument will require approximately 2 ½ minutes of warm up time before the operator can start the test. If the instrument has been turned completely off (no power) for a long period of time the warm-up period is approximately 30 minutes.

“………”
The instrument is verifying all operational parameters.
INSTRUMENT TONES

In addition to communicating through displayed messages and commands, the Intoxilyzer 5000EN breath analysis instrument also communicates by sounding three distinct tones.

1. A short beep will sound after pressing the “Enter” key, as each test data field is completed. A short beep will also sound after completion of each test mode sequence.

2. A constant or steady tone will sound while a subject blows into the mouthpiece during the “Please Blow” mode.

3. A low-high tone will sound intermittently for 10 seconds in the event the operator invalidates a test, an incorrect operational procedure or condition occurs, or an instrument error occurs.

INSTRUMENT KEYBOARD

The keyboard for the series 68 instrument is very similar to a standard computer keyboard.

Backspace
   Used to correct a typographical error or delete an entry, one character is erased at a time by pressing the key.

Enter
   To complete a data entry, the enter key must be pressed to transfer the information into memory and advance to the next test data request.

Space Bar
   To place space between words or to leave a data entry field empty press the space bar.

Shift, Control, Function (exception F-1), Alternate, Caps Lock, Tab, Escape
   Are non-functional keys for operators and are not to be used.

F-1 Key
   To produce a duplicate evidence card of the last test completed.
TEST DATA ENTRY SEQUENCE

1. When a test is initiated by pressing the “Start Test” button, the instrument carries out the data entry sequence.

2. The instrument carries out the test data entry sequence prior to beginning the test mode sequence.

3. A test data entry sequence is a series of information requests appearing on the display. The data provided varies from test to test; such as, the subject’s name, the operator’s name, citation number, etc.

4. When the instrument flashes a data request on the display, use the keyboard to enter the appropriate information. As you type, the typed characters will appear on the display.

5. The instrument expects data entry for each information field. Once you have typed the requested data press the “Enter” key to advance to the next information field. If the requested data does not apply, press the “Space Bar” and then the “Enter” key to advance to the next information field. Some information fields will not advance forward unless the requested data is provided.

6. To help ensure correct data entries, the instrument uses a character input mask. In other words, if the instrument expects a digit, it ignores all characters except 0-9. Likewise, if the instrument expects an alpha character, it ignores all characters except A-Z.

7. The instrument is capable of displaying only 16 characters at one time on the display. If a data entry requires typing more than 16 characters, the displayed characters scroll to the left as each additional character beyond the 15th is typed.

8. After making a data entry, press the “Enter” key. The instrument will store the entered data in memory and display the next data request.

9. If you do not wish to continue with the test data entry and want to stop the test, press the “Start Test” button to invalidate the test.

10. The last display in the test data entry sequence enables you to sequentially review the previously entered data entries. The display will read “Do You Want To Review Your Data?” “Y/N”. If you want to review your entries, press the “Y” key and then the “Enter” key. This will bring you back to the first data entry request. To view your entry press “Enter” key again. To proceed to the next entry press the “Enter” key. If you find an error in the data entry, press “Backspace” key then type the correct data. Continuing to press the “Enter” key you will return to the review data question. If you do not want to review the data, press the “N” key then the “Enter” key and the test mode sequence will immediately begin with an “Air Blank”.
TEST DATA INPUT

Twenty Minute Observation Period

The mucous lining of the mouth cavity and the nasal passage stores alcohol for some time after a person consumes alcohol. Normal body processes eliminate residual mouth alcohol within 20 minutes. Therefore, a certified operator shall have continuous control of the person by present sense perception for at least twenty (20) minutes prior to the breath alcohol analysis. During that period the subject shall not have oral or nasal intake of substances which will affect the test. Note the start of the observation period on the bottom of the evidence card in the area titled “Additional Information And/Or Remarks”. Furthermore, if the subject regurgitates, note the time and delay starting a breath test for at least an additional 20 minutes.

Operating Procedure

It is suggested that operators place the mouthpiece on the end of the breath tube prior to pushing the “Start Test” button to begin a test.

“CMI INC. INTOXILYZER - ALCOHOL ANALYZER KY MODEL 5000” “PUSH BUTTON TO START TEST” (Scrolling)

“PUSH BUTTON” (Flashing)

“TIME ##HR ##MIN” “DATE MM/DD/YYYY”

The standard scrolling display that is capable of displaying 16 characters. To start the test data sequence, press the “Start Test” button.

“INSERT CARD” (Flashing)

Insert the evidence card into the card slot on the front panel of the instrument. You have thirty (30) seconds to insert the card. If after thirty seconds a card has not been inserted, the instrument will return to the standard scrolling display.

“SUB LAST NAME” (Flashing)

Enter the subject’s last name, using a maximum of 15 characters. If the last name is longer than 15 characters, type the first 15 characters, and then write the subject’s full name on the “Subject’s Name” line at the bottom of the card. If the subject has a title (e.g. Sr., Jr., III), after you have typed the last name press “Space” bar and type the title.

Press “Enter” key

“SUB FIRST NAME” (Flashing)

Enter the subject’s first name, using a maximum of 15 characters. If the first name is longer than 15 characters, type the first 15 characters, and then write the subject’s full name on the “Subject’s Name” line at the bottom of the card.

Press “Enter” key
“SUB MIDDLE INITIAL” (Flashing)  
Enter the subject’s first initial of their middle name. If they do not have a middle name, press “Space” bar to indicate an empty data field.

Press “Enter” key

“OPER LAST NAME” (Flashing)  
Enter the operator’s last name, using a maximum of 15 characters.

Press “Enter” key

“OPER FIRST NAME” (Flashing)  
Enter the operator’s first name, using a maximum of 15 characters.

Press “Enter” key

“OPER MIDDLE INIT” (Flashing)  
Enter the operator’s middle initial.

Press “Enter” key

“A.O. LAST NAME” (Flashing)  
Enter the arresting officer’s last name, using a maximum of 15 characters.

Press “Enter” key

“A.O. FIRST NAME” (Flashing)  
Enter the arresting officer’s first name, using a maximum of 15 characters.

Press “Enter” key

“A.O. MIDDLE INIT” (Flashing)  
Enter the arresting officer’s middle initial.

Press “Enter” key

“A.O. AGENCY” (Flashing)  
Enter the arresting officer’s agency name, using a maximum of 20 characters.

Press “Enter” key

“O.R.I. NO” (Flashing)  
Enter the originating identifier number of the arresting officer’s agency. KY will automatically put in prior to the numbers typed in by the operator, a maximum of 8 characters.

Press “Enter” key
“CITATION NO” (Flashing)
Enter the arresting officer’s citation document number, a maximum of 20 characters.

Press “Enter” key

“REPORT NO” (Flashing)
Enter the arresting officer’s report number. If no report number is used, press the “Space” bar to indicate an empty data field, a maximum of 20 characters.

Press “Enter” key

“SUB OPER LIC NO” (Flashing)
Enter the subject’s operator license number. Start the data entry with the abbreviated state of issue (e.g., KY - Kentucky, OH - Ohio), using a maximum of 20 characters. If the license number is larger than the 20 character data field, enter the first 20 characters into the instrument. Then following the test at the bottom of the evidence card where it has “Additional Information And/Or Remarks” write the subject’s complete license number.

Press “Enter” key

“SUB DOB = MMDDYY” (Flashing)
Enter the subject’s date of birth, using 6 digits and the format MMDDYY (e.g., April 30, 1965 - type 043065). When entering single digit values (e.g., February 3rd - type 0203) enter a leading zero as shown in the example.

Press “Enter” key

“SUBJECT SEX” (Flashing)
Entering the subject’s sex using the letter:
“M” – male
“F” – female

Press “Enter” key

“SUB RACE” (Flashing)
Enter the subject’s race from the following entries:

“W” – for White
“B” – for Black
“AM (space) I” – for American Indian
“ASIAN” – for Asian

Press “Enter” key
“ETHNIC ORIGIN” (Flashing)
Enter the subject’s ethnic origin from the following entries:

“H” – for Hispanic
“NH” – for Non-Hispanic

Press “Enter” key

“DUI RELATED? Y/N” (Flashing)
Is the test being conducted for Driving Under the Influence? Answer from the following entries:

“Y” – Yes the test is DUI related
“N” – No the test is not DUI related

Press “Enter” key

“REVIEW DATA? Y/N” (Flashing)
If the operator wishes to review the data entries, press the “Y” key then the “Enter” key. The instrument will return to the first data prompt. To view the entered information press the “Enter” key. To review all data prompts and information continue pressing the “Enter” key. If a correction to the entered information is required, while the incorrect entry is visible on the display, press the “Backspace” key to remove the incorrect information one character at a time, then type in the correction and press the “Enter” key. Continuing to press the “Enter” key, you will return to the “Review Data? Y/N”. If you do not wish to review the data, press the “N” key then the “Enter” key. The instrument will immediately begin the testing sequence with the first “Air Blank”.

Intoxilyzer® 5000EN Manual

January 2015
DIAGNOSTIC CHECK

The Intoxilyzer 5000EN has a stand-by mode where the instrument appears turned off, but is not. A glowing red diode light below the power switch is the only indication that the instrument is on. To activate the instrument from the stand-by mode the operator must push the “Start Test” button. The display will reflect the current time followed by the message “Warm Up Period”. The “Warm-up” period lasts approximately 2 ½ minutes. During this period the instrument will conduct a diagnostic check.

Diagnostic Digital Display:

“PROM CHECK ####”

“RAM CHECK”

“TEMP CHECK”

“PROCESSOR CHECK #”

“VER ######”

“PRINTER CHECK”

“RTC CHECK”

“INTERNAL STD”

“DIAGNOSTIC OK”

If no errors are detected, the instrument will indicate “Diagnostic OK” and display the standard scrolling digital message and is ready to start the test.

If the instrument locates an error while performing the diagnostic checks, the display will reflect an error message (e.g. “Temp Error”, “RAM Error”) and a low-high tone sounds immediately for five seconds.
INSTRUMENT ERROR MESSAGES

The following are the error messages that will appear on the display during the diagnostic check if an error is detected:

“PRINTER ERROR”

“PROCESSOR ERROR #”

“PROM ERROR ###”

“RAM ERROR ###”

“RANGE ERROR”

“TEMP ERROR”

If an operator encounters an error message they should push the “Start Test” button. This will stop the test and instruct the instrument to conduct a diagnostic check. If the error is not detected during the diagnostic check, the instrument will display “Diagnostic OK” and return to the standard scrolling digital message. The operator should continue with the testing. If the error message returns, the operator should contact the supporting technician for assistance. Do not turn off the instrument. Locate another instrument to conduct the breath test or request another form of alcohol concentration test to be taken by the person arrested.

EVIDENCE CARD

The evidence card has no carbon paper attached. The paper used is a pressure sensitive paper. Copies are produced by the pressure of metal pins found in the printer head that strike the paper forming the letters and numbers.

If an evidence card jams in the printer and does not return, gently pull the corners of the exposed card from the printer. In the event the card tears off and a portion remains in the instrument, do not attempt to poke objects through the slot to retrieve the missing half. The test results are still available in the instrument’s memory. Contact the supporting technician for assistance.

If the evidence card is pulled from the instrument, the card can not be reinserted. If pulled out while still printing, the printer could be damaged. Contact the supporting technician for assistance.

OPERATOR PREVENTIVE MAINTENANCE

Do not place any objects on top of the instrument.

Do not eat, drink, or smoke around the instrument.

Do not move the instrument to a new location without contacting the supporting technician.
**COMPLETED EVIDENCE CARD**

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**DOCUMENTATION**

**INTOXILYZER - ALCOHOL ANALYZER**

**KY MODEL 5000EN SN 68-012845**

11/09/2009 13:56 EST

**SUB NAME:** Doe, John R  
**OPER NAME:** Smith, Peter M  
**A.O. NAME:** Smith, Peter M  
**A.O. AGENCY:** Grayson PD  
**D.O.I. NO:** KY0220188  
**CITATION NO:** 1234567

**REPORT NO:**  
**DRIV LIC NO:** KY D97-006-013  
**SUB DOB:** 01/03/56  
**SUB RACE:** M  
**ETHNIC ORIGIN:** NH

**TEST**  
**GRAAMS/210L TIME**  
**AIR BLANK:** .027  
**CAL CHECK:**  
**AIR BLANK:**  
**SUBJECT TEST:**  
**AIR BLANK:**

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**SUBJECT'S NAME**  
Peter M. Smith

**OPERATOR**

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**ADDITIONAL INFORMATION AND/OR REMARKS**

Observation begin 13:25

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Intoxilyzer® Instrument Printer Card  
Forensic Laboratories Section

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“INVALID TEST”

The “Start Test” button was pushed to begin a test. However, the operator chose to stop the test and pushed the “Start Test” button a second time. This will immediately invalidate the test. The instrument will print “Invalid Test” below the printed test data information.
“CHECK AMBIENT CONDITIONS”

During the “Air Blank” mode the instrument detected something within the sample chamber either absorbing or blocking the infrared light. The instrument will automatically cancel the test and print on the card “Invalid Test” “Check Ambient Conditions” below the printed test information data.

The operator should locate the source causing the condition and eliminate it before initiating another breath test.
“SAMPLE INTRODUCED AT IMPROPER TIME”

The instrument can only accept a subject’s breath sample during the “Please Blow/R” mode. If the subject attempts to provide a sample during any other time of the test mode sequence, the instrument will automatically cancel the test and print on the card “Invalid Test” “Sample Introduced At Improper Time” below the test information data.
“INHIBITED - RFI”

High amount of radio frequency interference was detected by the instrument. The instrument will stop the test and print “Invalid Test” “Inhibited RFI” below the printed test data information.

The operator should locate the RFI source and remove the source from the instrument’s operational environment before initiating another test.
“REFUSAL”

During the three-minute “Please Blow/R” mode, the subject elected not to continue with the breath test. To obtain a refusal card, the operator should push the “R” key and then the “Enter” key to indicate a refusal of the test. The instrument will print “Refused” beside the “Subject Test” and prints “Subject Refused To Continue” below the results of the last “Air Blank”.

![Image of an Intoxilyzer® 5000EN breathalyzer printout showing a refusal result.]
“NO SAMPLE GIVEN”

During the “Please Blow/R” mode, the subject has three minutes to provide a breath sample to be analyzed. If the subject makes no attempt to blow into the instrument and the three minute period expires, the instrument will complete the test mode sequence. The instrument will print “No Sample Given” below the results of the last “Air Blank”.

*The operator can initiate another test on the instrument or seek an alternate alcohol concentration test for the arrested person.*
“DEFICIENT SAMPLE” “ALCOHOL PRESENT”

During the “Please Blow/R” mode, the subject has three minutes to provide a breath sample to be analyzed. If the subject fails to give an adequate sample, the portion of breath provided will be analyzed by the instrument. The instrument may not be able to assess a specific alcohol concentration level due to the insufficient sample provided; however, it will be able to indicate if alcohol is present. The instrument completes the mode sequence and prints “Alcohol Present” where the subject test results would appear. It also prints “Deficient Sample” below the results of the last “Air Blank”.

*Operators shall request blood or urine or both at the site where the blood or urine is going to be taken.*
“DEFICIENT SAMPLE” “.000”

During the “Please Blow/R” mode, the subject has three minutes to provide a breath sample to be analyzed. If the subject provides an insufficient breath sample where a specific alcohol concentration level cannot be determined and the analysis fails to detect any alcohol molecules present, the impairment may not be due to alcohol but to drugs. The instrument completes the mode sequence and prints “.000” beside the “Subject Test”. It also prints “Deficient Sample” below the results of the last “Air Blank”.

Operators shall request blood or urine or both at the site where the blood or urine is going to be taken.
“INSTRUMENT RANGE EXCEEDED”

Due to the high level of alcohol concentration in the subject’s breath sample, the instrument is unable to calculate the highest possible breath alcohol concentration level. The instrument’s range of detection was exceeded. The instrument will print on the card “Invalid Test” “Instrument Range Exceeded” below the test information data.

Do not attempt to run a second breath test, seek medical attention, then request blood and/or urine.
“INVALID SAMPLE”

If the instrument detects residual mouth alcohol while the subject is providing a breath sample, it will stop the analysis. The instrument will complete the mode sequence and print a card. On the evidence card, in place of “Subject Test. ###”, it will print “Invalid Sample .XXX” and type “***MOUTH ALCOHOL DETECTED*** OBSERVE SUBJECT FOR TWENTY MINUTES BEFORE PERFORMING ANOTHER BREATH TEST ON THIS SUBJECT.”

The operator can read the Implied Consent Warning and request an alternate chemical test.

![Evidence Card Image]

Intoxilyzer® 5000EN Manual
“INTERFERENT DETECTED”

While the subject is providing a breath sample, the instrument detected a substance that absorbs infrared energy in the same frequency range as alcohol (e.g. acetone, toluene, and methanol) and will stop the analysis. The instrument will complete the mode sequence and print a card. The instrument completes the test mode sequence and prints “.INT” beside the “Subject Test”. It also prints “Interferent Detected” below the results of the last “Air Blank.”

The operator should first consider this a possible medical emergency and immediately run a second test. If the results are the same, seek medical attention for the arrested person.
“OUT OF TOLERANCE” “Fails Low Limit”

During the “Cal Check” mode, the instrument is sampling the alcohol vapor from the attached wet bath alcohol solution. If the alcohol vapor analysis is not within, at, or between the established tolerance ranges according to the Kentucky Administrative Regulation, the instrument will stop the test and print below the results of the last “Air Blank”: “Invalid Test”; “Reference Check Out of Tolerance Fails High or Low Limit”.

The operator should immediately attempt to run a second test on the instrument. If the second attempt for a test falls outside the tolerance range, then the operator should seek another testing instrument or offer an alternate alcohol concentration test to the arrested person. Notify the supporting technician.
“OUT OF TOLERANCE” “FAILS HIGH LIMIT”

During the “Cal Check” mode, the instrument is sampling the alcohol vapor from the attached wet bath alcohol solution. If the alcohol vapor analysis is not within, at, or between the established tolerance ranges according to the Kentucky Administrative Regulation, the instrument will stop the test and print below the results of the last “Air Blank”: “Invalid Test”; “Reference Check Out of Tolerance Fails High or Low Limit”.

The operator should immediately attempt to run a second test on the instrument. If the second attempt for a test falls outside the tolerance range, then the operator should seek another testing instrument or offer an alternate alcohol concentration test to the arrested person. Notify the supporting technician.
“UNABLE TO OBTAIN A STABLE REFERENCE”

The instrument’s microprocessor was unable to obtain a stable voltage reference from the processor. The instrument stops the test and prints on the card “Invalid Test” “Unable To Obtain a Stable Reference” below the test information data.

The operator should initiate another test on the instrument. If the condition continues, notify the technician.
Kentucky Breath Test Operational Procedures

1. Push the start test button if the display indicates the instrument is in the standby mode. If not, start with Step 2.

2. Check for MOUTH SUBSTANCES and read the following:

   During the next 20 minutes you are not allowed to eat, drink, smoke or place anything in your mouth or nasal passages. Do you have anything in your mouth at this time?

3. Check the date and time displayed on the instrument. Use this time as the beginning of the 20 MINUTE OBSERVATION PERIOD. If the instrument is being used by another operator, you can use another source for the beginning of the observation time. Be sure you use that same source to ensure the 20 minutes has been conducted and noted as a different time source on your citation. The operator should transfer this time to the bottom of the evidence ticket on the 8000 instrument labeled “Time First Observed” after it has been printed. (On the 5000EN model, write “Observation Began” and the beginning time at the bottom of the corresponding evidence ticket below the “Additional Information and/or Remarks” section).

4. Check the compressed gas cylinder located at the back of the instrument to ensure it has a sufficient amount of pressure to run a test and the hoses are connected to the instrument. If a wet bath solution is being used, check to ensure the simulator paddles are spinning and the hoses are connected to the instrument. Check the breath tube to ensure it is warm to the touch.

5. READ IMPLIED CONSENT WARNING:

   I will be requesting that you submit to a test of your breath, blood or urine or any combination of these tests. If you refuse to submit to any test which I request, your refusal may be used against you in court as evidence of your violation of KRS 189A.010 and your driver’s license will be revoked. If you are convicted of KRS 189A.010, your refusal will subject you to a mandatory minimum jail sentence which is twice as long as the mandatory minimum jail sentence that would be imposed if you submit to all requested tests. You will also be unable to obtain a hardship license. The results of any tests taken may be used against you in court as evidence of your violation of KRS 189A.010. If the results are 0.15 or above and you are convicted of violating KRS 189A.010, you will be subject to a jail sentence that is twice as long as the mandatory minimum jail sentence that would be imposed if the results are less than 0.15. If you submit to all tests which I request, you have the right to obtain a test or tests of your blood performed at your expense by a qualified person of your choosing within a reasonable time of your arrest.

6. OFFER ATTEMPT TO CONTACT ATTORNEY by reading the following:

   You have at least 10 minutes, but not more than 15 minutes, to attempt to contact and communicate with an attorney. Do you wish to attempt to contact an attorney at this time?

7. After the 20 minute observation period is complete, REQUEST the test as follows:

   Based upon the information which was previously read to you, I am now requesting you to submit to a test of your breath. Will you now submit to the test? If yes, attach the mouth piece and push the start test button. (On the 5000EN you will be prompted to insert an evidence ticket).
8. Depending on the state of issue of the operator’s license, it may be scanned into the 8000 instrument. If it cannot be scanned (or if you are using the 5000EN), manually input the information by following the prompts on the screen.

- Subject’s last name, first name, middle initial
- Instrument operator’s last name, first name, middle initial
- Arresting officer’s last name, first name, middle initial
- Arresting officer’s agency name
- O.R.I. Type in “KY” prior to the number (5000EN already has the “KY”).
- Citation number
- Report number if applicable
- Driver License Number (Include state of issue on the 5000EN)
- Driver License State of Issue for the 8000 instrument only
- Subject date of birth (mm/dd/yyyy for the 8000 and mm/dd/yy for the 5000EN).
- Subject Sex (M=male or F=female)
- Subject Race (AM I=American Indian, ASIAN=Asian, B=Black, W=White). Toggle through list using up and down arrow keys on the 8000 and typing the correct response on the 5000EN.
- Subject ethnic origin (H=Hispanic or NH=Non-Hispanic). Toggle through list using up and down arrow keys on the 8000 and typing the correct response on the 5000EN.
- DUI related? (Y=Yes or N=No)
- Review data? (Y=Yes or N=No) “Yes” loops back to subject name and then pressing the enter button takes you through all the above data; “No” begins the first air blank of the “ACABA” sequence.

9. When the instrument’s display is at the “Please Blow/R Mode”, have the subject provide a sufficient breath sample and wait for the instrument to complete the “ACABA” sequence.

10. BLOOD TEST REVISITED (Read this only if the subject submitted to all of your requested tests).

Since you have submitted to all requested tests, you now have the right to have a test or tests of your blood, performed at your own expense by a physician, registered nurse, phlebotomist, medical technician or medical technologist of your choosing within a reasonable time of your arrest. DO YOU WANT SUCH A TEST?

For operational questions of the Intoxilyzer consult your Department of Criminal Justice Training OPERATORS MANUAL or contact the DUI Enforcement Section of the Department of Criminal Justice Training at (859) 622-2309.

For service or technical questions call (502) 564-5230 and ask for the Breath Alcohol Maintenance Section of the Kentucky State Police. Provide them the following information: Your name, Instrument location, Department phone number, Time the problem occurred, Date the issues occurred. Be as specific as you can about the issues with the instrument.