



COMPARATIVE SPECIFICATION
PORTABLE BREATH ALCOHOL TESTER WITH PRINTER

Product Name	ALERT J4X.ec	BREATHALYZER® 7410
Approval	US Dept of Transportation	US Dept of Transportation
Agencies in Use	Police and Industry in USA, Europe, Asia, and South America	Police and Industry in USA and Europe
Description	Portable Evidential Breath Alcohol Tester with accessory Printer featuring dual mode: Passive and Direct methods of breath alcohol testing	Portable Evidential Breath Alcohol Tester with accessory Printer
Dimension	15.0 x 8.8 x 3.5 cm	23 x 7 x 4 cm
Weight	300 grams	500 grams
Ambient Temp	-20°C to +50°C	-5°C to +40°C
Humidity	Suitable for humid climates (20%-95% RH)	20%-95% RH
Durability	Proven to be solid for Police use	Police use
Battery type	Rechargeable NimH battery pack	Rechargeable nickle cadmium battery pack Requires charging stand
Low Battery	Battery strength indicator	Low Battery Error
Sensor Type	Electro-chemical (fuel cell) sensor	Electro-chemical (fuel cell) sensor
Specificity	Responds only to alcohol, no response to ketones or hydrocarbons	Responds only to alcohol, no response to ketones or hydrocarbons
Accuracy	Within 5 percent at .10 % BAC	Within 5 percent at .10 % BAC

Range of Measure	.000 - .500 %BAC	.000 - .300 % BAC
Calibration Interval	6 months	6 months
Warm up Time	5 - 10 seconds	15-30 seconds
Response Time	5 - 25 seconds	20 – 120 seconds
Recovery Time	10 - 30 seconds after positive alcohol test	10 - 90 seconds after positive alcohol test
Breath Sampling	Minimum 2 seconds	4 – 12 seconds
Type of Display	There is a four digit LED display on the ALERT J4X.ec	3 Digit lcd
Function Indicators	Step by step display instructions on display	Limited information
Date and Time	The real time appears on the display each time the ALERT J4X.ec unit is powered on and is stored with the test result for later viewing or print out.	Internal to unit
Tamper Proof	Microcomputer control. Results cannot be altered by individual action. Calibration by internal memory. All automatic function.	Micro-computer control
Additional Features	ALERT J4X.ec unit automatically checks to ensure that the sensor is free from contamination before a test can proceed to ensure accuracy.	None
Blank Check	ALERT J4X.ec unit automatically conducts a blank test prior to each breath test to ensure accuracy of the readout.	Yes
Blank Test	ALERT J4X.ec unit will automatically sample the breath when the subject blows through the disposable mouthpiece for a minimum of 5 seconds.	None
Passive Test	ALERT J4X.ec unit will manually sample the breath when the subject is within 10 - 20 cm from the unit without the needs for a disposable mouthpiece.	None
Direct Test	ALERT J4X.ec unit will automatically sample the breath when the subject blows through the disposable mouthpiece for a minimum of 2 seconds when the operator actuates the sampling procedure.	Yes
Test Record	Test record serial number up to 100,000 for unique	None

	identification of the test results	
Test Memory	Tests results stored in memory for later recall	150 tests stored.
Test Recall	Results of the last test can be viewed on the lcd display of the ALERT J4X.ec prior to printing out.	Previous test result recall.
Print out	40 character thermal print out and micro-computer control for later retrieval and multi-copy	Yes
Calibration	Under the control of the microprocessor without operator intervention. New calibration factor automatically calculated and stored in memory for later recall.	Need calibration magnet and operator intervention.
Verification	Separate test function enables the operator to verify the results of the calibration, which are stored in memory for later recall.	No
Communication	PC interface	Yes
Accessories	Carry case with Printer, dc 12 volt battery, power supply, and manual	Carry case with Printer, dc 12 volt battery and manual.
Training	Manuals	Manuals

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1-800-656-0745