

DMT vs. BAC DataMaster
September 3, 2008

1. The DMT is roughly half the size and one third the weight of the BAC.
2. The DMT software is built on a Windows-CE based platform which allows for a more user friendly, familiar interface.
3. The user interface employs a touch screen display.
4. Real time display of breath flow and alcohol concentration profile as sample is delivered.
5. Breath/Alcohol graph is printed on test reports. Displays approximate alcohol concentration even if a valid sample is not delivered.
6. Breath volume monitoring and reporting.
7. All routine maintenance tasks are now built in protocols as part of the software in the instrument. Calibration, Certification, Installation, Routine Performance Check, Annual Preventative Maintenance and Simulator Solution Changes are now performed as software protocols.
8. Discovery Response: Memory function ON.
9. Discovery Response: Agencies generate their own discovery responses using the records stored on the DMT. Summary reports available.
10. Routine Performance Checks mandatory for continued use during required months.
11. External color ink jet printer using 8.5 x 11 paper for all tickets and reports.
12. 3 filters for increased interferant sensitivity.
13. More sophisticated Invalid Sample criteria
 - a. 3 negative 2-point averages after 6 consecutive positive (BAC uses 4+)
 - b. If a final result $\geq 0.060\text{g}/210\text{L}$ but less than 95% of any previous high reading.
 - c. Any final result ≥ 0.003 but $< 0.060\text{g}/210\text{L}$ is lower than any previous reading by at least 0.003.
14. Monitored heated zones also include breath tube.
15. 5% acceptance range on simulator solution based on true concentration.
16. Mandatory built-in 15 minute observation period on all DUI breath tests.
17. One-way valve on breath tube with "Suck back error" fail safe.
18. Smaller sample chamber.
19. More sensitive detector.
20. Digitally controlled potentiometers for voltage settings.
21. Surface mount technology on controller boards save space and reduces power dissipation.
22. 12V DC capability.
23. Dry gas capability.
24. Employs filter wheel.