

Annual Preventative Maintenance Protocol for DataMaster DMT

July 7th, 2006

This protocol will be available as an option under the Technician level password.

- APM
- Calibrate
- Perform Certification
- Installation
- Etc (All other tests we would like under Technician Password)

Any Status Error Messages such as breath tube temp error, should display when technician level password is entered

Technician will select the option for APM

1) Enter Technician Name

John Q Smith

2) Does site meet the specifications in doc #XXX?

- Yes
- No

This should respond immediately to a "NO" answer. 40 character max.

Reason for noncompliance? ex) site under construction

3) Check Simulator Motor

- Acceptable
- Not Acceptable

This should respond immediately to a "Not Acceptable" answer.

3a) Simulator Repaired?

- Yes
- No

This should respond immediately to a "Yes" answer. 40 character max.

3a1) Repair Performed? Ex)Whacked it

If Simulator is Replaced a 30 Minute Timer should begin and display in the right hand corner of the screen.

MM:SS

This should respond immediately to a "NO" answer on 3a.

3b) Simulator Replaced?

- No
- Yes, New Serial # XXXXX

Lot # XXXX Concentration 0.XXX % wt/Vol

4) Check Simulator Temperature

- Acceptable
- Not Acceptable

This should respond immediately to a "Not Acceptable" answer.

4a) Temperature Adjusted to Acceptable Range?

- Yes
- No

This should respond immediately to a "NO" answer.

If Simulator is Replaced a 30 Minute Timer should begin and display in the right hand corner of the screen.

MM:SS

4b) Simulator Replaced?

- No
- Yes, New Serial # XXXXX

Lot # XXXX Concentration 0.XXX % wt/Vol

This should respond immediately to a "NO" answer.

4b1) Reason for Non-replacement?

Ex) Whacked it with a hammer

5) Replace Simulator Jar O-Ring
Hit Enter when ready

6) Perform Pressure Check of Simulator

- Acceptable
- Not Acceptable

This should respond immediately to a "Not Acceptable" answer.

6a) Simulator Repaired?

- Yes
- No

This should respond immediately to a "Yes" answer. 40 character max.

6a1) Repair Performed? Ex)Dropped it

This should respond immediately to a "NO" answer on 6a.

*If Simulator is Replaced a 30 Minute Timer should begin and display in the right hand corner of the screen.
MM:SS*

6b) Simulator Replaced?

- No
- Yes, New Serial# XXXXX

Lot # XXXX Concentration 0.XXX % wt/Vol

7) Check Cable Connections
Hit enter when ready

8) Check 5 Way Valve
Hit enter When Ready

9) Status Messages Remedied?

- Yes
- No

10) Running Diagnostic Test

Diagnostic check will begin automatically (assuming 30 minute timer is at 00:00) when answer is given to question 9. This will be a message requiring no action from the technician. Diagnostics should display on screen, technician will hit enter when ready to move to the next step.

11) Running Supervisor Test

Supervisor Test will begin when enter is keyed after the Diagnostic Check. This is also a message requiring no action from the technician. 5 replicates of the simulator solution will be performed. Average concentration must be within acceptable range generated at solution change. Standard deviation must be between 0 and 0.0022 for acceptable test. A standard deviation of greater than 0.0022 or an average outside of acceptable range will result in a error message but protocol will not be aborted.

12) Sample Acceptance Test

Press Enter when Ready

13) Provide Shallow Breath

14) Provide Intermittent Breath

Each breath instruction will display on screen for 15 seconds. Technician may work at their own pace. Test sequence is complete when a valid alcohol free test is obtained.

15) Perform Suck Back Test

16) Provide valid Alcohol Free Test

The valid test must meet all requirements of a subject sample to be deemed acceptable. A test of 0.002 or higher should generate a message indicating that the technician try again. If on the second test, the result is still not acceptable this will result in an error message but protocol will not abort.

17) Did Instrument Pass All Sample Acceptance Checks?

- Yes
- No

This box should respond immediately to a "NO" answer. 40 character max.

Reason for Failure? Ex) Instrument allowed shallow breath.

18) Entries Made in All Logs?

- Yes
- No

19) Remove from Service?

- Yes
- No

At the completion of the Annual Preventative Maintenance a form should print showing all information noted above as well as options, results and graphs of all tests.

The bottom of the form should have several lines available for Comments and a line where the technician can sign and print his/her name with the date.

The Header should include the Health Department seal on the upper left with the following information centered in the Header:

Vermont Department of Health Laboratory
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