

RPC Protocol for DataMaster DMT

June 30, 2006

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

- Routine Performance Check
- Diagnostic Test
- Supervisor Test
- Print memory for Discovery (?)
- Print Calibration (?)
- Etc (Any other tests we would like under Supervisor Password)

DataMaster Supervisor will select the option for Routine Performance Check

1) Replace Simulator Solution
Press enter when complete

2) Enter Actual value of Simulator Solution
0.XXX %wt/vol

Instrument will calculate a $\pm 5\%$ acceptance criteria from the actual value.

3) Enter Supervisor Name

John Q Smith

Instrument will now remain idle while 30 minute Timer counts down to zero

4) Running Diagnostic Check

5) Running Supervisor Test

Supervisor Test will begin when Diagnostic Check is complete. This is also a message requiring no action from the supervisor. 5 replicates of the simulator solution will be performed. Average concentration must be within range generated in step 2. 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 failed RPC, protocol will be aborted with a message indicating the reason.

*30 Minute Timer will begin Countdown when "enter" is keyed. This clock will remain on screen in the upper right corner.
MM:SS*

Diagnostic check will begin automatically when 30 minute timer is at 00:00. This will be a message requiring no action from the supervisor.

6) Sample Acceptance Test
Press Enter when Ready

Forcing the Supervisor to hit enter will ensure that officer is ready to continue. I envision Officers walking away during automated tests.

7) Provide Shallow Breath

8) Provide Intermittent Breath

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

9) Perform Suck Back Test

10) 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 Officer try again. If on the second test, the result is still not acceptable this will result in a failed RPC and the protocol will abort with the reason displayed.

11) Did Instrument Pass All Sample Acceptance Checks?

- Yes
- No

This box should respond immediately to a "NO" answer. 40 character max. After reason is entered, instrument should go Out of Service.

Reason for Failure? Ex) Instrument allowed shallow breath.

12) Entries Made in All Logs?

- Yes
- No

13) DM tech Service Contacted?

- Yes MM/DD/YY
- No

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

Reason for Service? Ex) Purge lasted unusually long

At the Completion of the RPC a form should print showing all information noted above as well as results and graphs of all tests.

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

The following should print at the bottom of the page:

Mail or Fax a photocopy of this RPC to DataMaster Technical Services.

This should be followed by a section for DataMaster Technical Services Only:

This section should ask the following questions:

Reviewed Worksheets? Yes No

DataMaster passed all checks? Yes No MM/DD/YY
Removed from service

Follow-up Action Needed? Yes No

Follow-up Action Taken. (Allow several lines)

Reviewed by: (allow lines for signature and 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
195 Colchester Ave, PO Box 1125, Burlington, VT 05402-1125
DataMaster Technical Services (ph) 802-863-7641 (fax) 802-863-7632