

WATERS CORPORATION
ENGINEERING TEST SPECIFICATION AND PROCEDURE
COMPANY CONFIDENTIAL

SYSTEM/ASSEMBLY NAME: **WATERS PC BOARDS**

PART NUMBER AFFECTED: **N/A**

TEST EQUIPMENT NAME: **WATERS GLOBAL TEST SYSTEM**

TEST EQUIPMENT NUMBER: **TE82988**

TEST EQUIPMENT LOCATION: **VARIOUS**

DOCUMENT NUMBER: **735002109**

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DATE: **02/22/10**

REVISED BY:

DATE:

REVISION: **A**

VALID IF CURRENT EFFECTIVE REVISION AND STAMPED IN RED BY DOCUMENT CONTROL OR WITH SAP-GENERATED TIME & DATE STAMP.

EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	TE82889	Waters Global Functional Test System
1	TE83004	GTS Self-Test Fixture (for cal/verify)
	various	GTS board specific fixtures

SPECIFICATIONS

1. SETUP

- 1.1. Connect system to vacuum, AC power, and LAN per site prep guide.
- 1.2. Power up tester by ensuring the power switch on front panel is on and the emergency power cutoff switch is in the out position.
- 1.3. Allow 3 minutes for hardware to initialize. Power up PC by pressing the power switch on front of PC. NOTE: Always power up hardware before PC.
- 1.4. If report printing is desired, configure PC to connect to a local or network printer.

2. OPERATION

- 2.1. Login to the system as username: tester, password: tester.
- 2.2. The test system user interface program will automatically run at startup. If it has been closed, double click on the GTS UI.exe icon on the desktop.
- 2.3. The system will login tester automatically in most cases (login/logout button displays 'Logout'). If not, click the 'Login' button and enter username: tester, pw: tester.
- 2.4. Click the Select Board button. A dialog box will appear, listing the available boards that can be tested on the system. Select the board you wish to test or select 'none' to unload current test sequence.
- 2.5. Load the appropriate fixture on the system, aligning fixture slots to system pins and pull handle forward to engage.
- 2.6. Click 'Test UUTs' and enter serial number of current board when prompted. Repeat serial number entry for each board tested.
- 2.7. Use the report viewer at bottom of screen to print individual reports.
- 2.8. During a run there are three buttons available to stop/pause/resume the process.
 - 2.8.1. 'Terminate All' – terminates the current test, cuts power to the UUT and releases the vacuum. Used to abort entire test.
 - 2.8.2. 'Break' – stops the test at the current step while maintaining power and vacuum. Used for troubleshooting/diagnostics/forgotten jumpers etc
 - 2.8.3. 'Resume' – starts test back up that was stopped with the 'Break' button.
- 2.9. To change to another board, return to step 2.4.
- 2.10. Click on Exit to quit.

3. SELF TEST SETUP

- 3.1. Log on to the system as TE-1(administrator) – see supervisor for password
- 3.2. Open National Instruments TestStand.
 - 3.2.1. Start > Programs > National Instruments TestStand 4.2.1
- 3.3. Log in to TestStand
 - 3.3.1. Username "administrator"
 - 3.3.2. see supervisor for password

- 3.4. In TestStand open the current Self Test sequence file located in C:\GTS Selftest\Test Sequence\TE82988 Selftest rev x.
- 3.5. Execute the Self Test sequence
 - 3.5.1. From the TestStand Menu bar select Execute > Single Pass
- 3.6. A Self Test report is generated and is located in the same directory as the sequence file.
When finished close TestStand and log out of the windows TE-1 account.