

DOCUMENT TITLE: **ARC PREMIER TUV PRETEST**

SYSTEM/ASSEMBLY NAME: **ARC PREMIER TUV**

PART NUMBER AFFECTED **186019007**

TEST EQUIPMENT NAME: **TUV DOWNLOAD / PRETEST STATION**

TEST EQUIPMENT NUMBER: **TE82964**

TEST SOFTWARE:



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DATE: **January 07, 2021**

REVISED BY: **N/A**

DATE: **N/A**

EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	TE82964	TUV Download /Pretest Station (Empower Work Station with system suitable option)
1	NA	RS232 Serial Cable
1	NA	Ethernet Cable
1	NA	Appropriately grounded anti-static wrist strap
1	205001027	2489 analytical cell

REFERENCE DOCUMENTATION

Document #	Description
WAT046538	GENERIC HI-POT & GND CONT Test PROC.
721007908	Velox 2489 UV Detector FSD

DEFINITIONS AND ABBREVIATIONS

Term	Definition
Δ Production Support Checks (PSC)	Tests performed in support of product design specifications to assure product quality, and/or verify pre/post test conditions.

TEST SPECIFICATIONS AND TRACEABILITY MATRIX

Test #	Test Specification & Condition	Acceptance criteria	Reference
1	Visual Inspection	Fully assembled with no obvious defects	Production Support Check (PSC)
2	Electrical Safety	Pass	WAT046538
3	Calibration	Unit calibrates without errors	Production Support Check (PSC)
4	Fan	Exhausts out rear of unit	Production Support Check (PSC)
5	Keypad	All keys function	Production Support Check (PSC)
6	Display	All pixels function	Production Support Check (PSC)

1. VISUAL INSPECTION

- 1.1. Complete header information for *Instrument Test Record*.
- 1.2. Visually inspect unit for obvious defects.
- 1.3. Check that all cables are seated properly into their perspective connectors.
- 1.4. Check for proper ground connections.
- 1.5. *Record Pass/Fail results for the Visual Inspection test onto Instrument Test Record.*

2. ELECTRICAL SAFETY TESTS

- 2.1. Perform the Electrical Safety Tests per High Pot and Ground Continuity Test Procedure, document WAT046538.
- 2.2. *Record Pass/Fail results for Electrical Safety Test onto Instrument Test Record.*

3. FIRMWARE LOADING

- 3.1. Connect power cord, RS232 cable and Ethernet cable to detector.
- 3.2. Switch detector power on.
- 3.3. From the desktop, double click on the LOADER icon.
- 3.4. In the firmware Loader Dialog, select the "Scan" box then click on the "Next" button.
- 3.5. Loader will show the Ethernet port on instrument available.
- 3.6. Select Ethernet download by clicking on it then click the "OK" button.
- 3.7. Select the Velox.sft for the instrument type then click OK.
- 3.8. Click on the "Next" button to start downloading the software.
- 3.9. Click on the "Finish" button when the download completes.
- 3.10. Click hyper terminal icon and key in "version" to get firmware version.
- 3.11. Switch instrument power OFF.
- 3.12. *Record firmware version onto header of Instrument Test Record.*

4. POWER ON / CALIBRATION

- 4.1. Install analytical cell.
- 4.2. Switch unit power ON. Clear all messages by pressing the **Enter** key after each one appears.
- 4.3. Wait until unit displays Warm Up page.
- 4.4. Enter **1,1,4,7** to bypass warm up.
- 4.5. Follow onscreen instruction to clear error message. Press "Enter".
- 4.6. Verify that unit calibrates. From Homepage, press **shift, 3, Enter, Enter**.
- 4.7. *Record Pass/Fail results for Calibration onto Instrument Test Record.*

5. FAN TEST

- 5.1. Verify that the rear panel fan is turning and that air is blowing out the back of unit.
- 5.2. *Record the Pass/Fail results for the Fan Test onto Instrument Test Record.*

6. KEYPAD TEST

- 6.1. On the unit keypad, press **Diag, 4, 4**.
- 6.2. Press each key and verify that the appearance of corresponding indicator changes. Press the **Enter** key a second time when test is completed.
- 6.3. *Record the Pass/Fail results for Keypad Test onto Instrument Test Record.*

7. DISPLAY TEST

- 7.1. On unit keypad, press **5**.
- 7.2. Watch the display. Starting from the top, each horizontal row will be turned on sequentially, then starting from the right, each row will be turned off sequentially. If any pixels stay off, or are out of place this test fails.
- 7.3. **Note:** If contrast needs adjustment, from Homepage, press shift, contrast then increase or decrease as needed.
- 7.4. *Record Pass/Fail results for Display Test onto Instrument Test Record.*

WATERS CORPORATION - TEST RECORD

Part Number: _____	Product: _____
Operator: _____	Start Date/Time: _____
Serial Number: _____	End Date/Time: _____
Test System: _____	Order: _____
Test Software: _____	Location: _____

TMD:

Firmware:

Test Name	LSL	Measurement	USL	Unit	Outcome		
Visual Inspection	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐
Electrical Safety	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐
Calibration	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐
Fan	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐
Keypad	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐
Display	—	—	—	—	PASS ☐	FAIL ☐	See Event Log ☐

Note: Fill in 'N/A' if not applicable.

Instrument Overall Result - **PASS** ☐ **FAIL** ☐

Signed: _____	Date: _____
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END OF DATA