

Humidity Test Report

Issue by

Design Technology Department

Product Model	WMRM2400 / WMRM2400-TR
Product Description	Display
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> Display <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2016/12/21
Issue date

David Chen
Approved

Peter Chou
Test Engineer

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1. Document Introduction and Revision History

This document describes how we conduct the environment conditions and test procedure. It includes the test equipment we use, the test condition, and the test procedure we take. We also define our test criteria and the way to conclude the test result.

(According to client's test specification, please see following sheets in detail.)

Table of Testing Summary Results

NO	Test Item	Condition Description	Sect. / Page	Reference to
1	Humidity Test	Operation Test temperature: 30°C to 60°C ± 2°C Relative Humidity : 95%RH ± 3% For a period of 120 Hours (5 Cycles; 1 Cycle=24Hours)	3 / 4	MIL-STD-810G Method 507.5 Figure 507.5-7

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2. Product Configuration

1. M/B : R7DD-200
2. Panel : LG / LM240WU8-SLD1 / 1920x1200
3. Driver Board : DB04-110
4. DVI equalizer : DVIEQ-200
5. Light Sensor Board : TLS110-CON03
6. OSD Board : MIOSD-120
7. Open Frame : LTE120FS-S2 100W 12V

3. Humidity Test

A. Test Equipment:

- Test Site: i-Tech LAB
- Programmable Temperature & Humidity Chamber
- KSON / THS-GT4-100 / S/N: 5887K

B. LAB Environmental Conditions:

- Ambient Temperature :25 +/- 3°C
- Relative Humidity: 55 +/- 20% RH

C. Test Method / Specification :

- Reference to MIL-STD-810G Method 507.5 Testing Procedures
- Selecting Produces: Operation (This method has one produce.)
- Reference to Figure 507.5-7. Aggravated temperature-humidity cycle.
- Temperature: 30 to 60°C ± 2°C
- Humidity: 95 +/- 3%RH
- For a period of 120 Hours (5 Cycles; 1 cycle=24Hours)
- With Adapter
- Testing Software:
Running IN Programmable video pattern generator
- Quantity: Total 1 Set
- Testing Period: Dec. 14, 2016 to Dec. 19, 2016

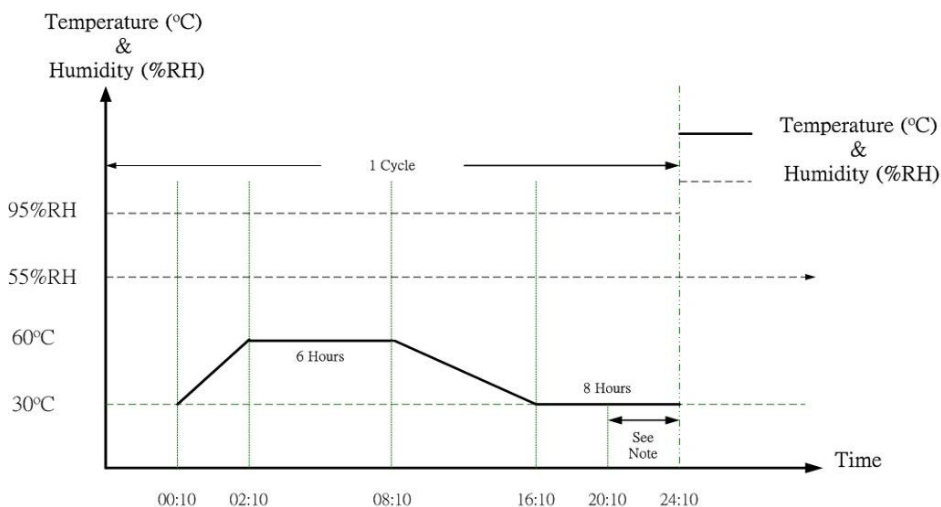


Figure 1 : Humidity Test Cycle

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D. Check Condition and Requirements:

After the preconditioning, humidity and temperature cycling is to be carried out in accordance with Fig. 1.

This test determines the ability of equipment to be operated under condition of high humidity.

A single cycle is used with an upper temperature limit of +60°C which is the maximum that occurs in the earth’s surface atmosphere with a relative humidity of 95%RH.

The EUT shall be placed in a chamber at normal room temperature and relative humidity. The temperature shall then be raised to +30°C to +60°C±2°C , and the relative humidity raised to 95% +/- 3% over a period of 2 hours .The conditions shall be maintained for a period of 120Hours.

Expose the test item(s) to the appropriate number of test cycles (figure 507.5-7). Within 15 minutes after (figure 507.5-7) is completed, conduct an operational performance check, if applicable, and document the results.

E. Test Result:

Examine the appearance of specimen(s) by visual check and perform functional check after this test. Connect the specimen with rated power then examine whether the display function of specimen could be work normally or not.

- Functional Check & Mechanical Structure: Normal
- Appearance check (Visual check): No visible damage
- The requirements of the performance test and check shall be met.

F. Test Judgment:

- Test Result

Check Item Style Item No.	Appearance check (Visual check)		Functional & Performance check
	Initial	Final	
WMRM2400 WMRM2400-TR	No visible damage	No visible damage	Normal