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## **CERTIFICATION TEST REPORT**

**Manufacturer:** Heat Watch LLC  
818 Sixth Avenue, Suite 4N  
New York, New York 10001 USA

**Applicant:** Same as Above

**Product Name:** Heat Watch Gateway Module

**Product Description:** Product repeats temperature sensors through a wireless RF network. It can also be connected directly to the Heat Watch Boiler Control to serve as a gateway (bringing the temperatures of the apartments onto the Heat Watch box).

**Operating Voltage/Frequency:** 3.6VDC

**Model:** Gateway V4.0

**FCC ID:** 2AQX2-HWGATE915

**Testing Commenced:** July 2, 2018

**Testing Ended:** Oct. 19, 2018

**Test Results:** In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Standards:**

- KDB447498



Order Number: F2LQ10163C, F2LQ10163C-C1

Client: Heat Watch LLC

Model: Gateway V4.0

10/22/18

**Report Constructed by:**

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**Report Reviewed by:**

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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

### 1.4 Document History

Document Number	Description	Issue Date	Approved By
F2LQ10163C-03E	First Issue	Oct. 22, 2018	K. Littell



Order Number: F2LQ10163C, F2LQ10163C-C1

Client: Heat Watch LLC

Model: Gateway V4.0

## 2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None



**Order Number: F2LQ10163C, F2LQ10163C-C1**

**Client: Heat Watch LLC**

**Model: Gateway V4.0**

### **3      ENGINEERING STATEMENT**

This report has been prepared on behalf of Heat Watch LLC to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



## 4 EUT INFORMATION AND DATA

### 4.1 Equipment Under Test:

Product: Heat Watch Gateway Module  
Model: **Gateway V4.0**

Serial No.: None Specified

FCC ID: 2AQX2-HWGATE915

### 4.2 Trade Name:

Heat Watch LLC

### 4.3 Power Supply:

3.6VDC

### 4.4 Applicable Rules:

KDB447498

### 4.5 Equipment Category:

Radio Transmitter-DTS

### 4.6 Antenna(s):

Whip, 2.2dBi gain  
Dipole, 2dBi gain

### 4.7 Accessories:

N/A



Order Number: F2LQ10163C, F2LQ10163C-C1

Client: Heat Watch LLC

Model: Gateway V4.0

## 5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

### 5.1 Requirements:

Limit: 0.61mW/cm<sup>2</sup>

Formula used for result: 
$$\frac{\text{E.I.R.P.}}{4 \pi R^2}$$

Results: E.I.R.P. = 115.88mW is the highest E.I.R.P

$$\frac{115.88\text{mW}}{4 \pi R^2} = \frac{115.88\text{mW}}{5026.55} = 0.0231\text{mW/cm}^2$$