

King Electrical Manufacturing Company

TEST REPORT

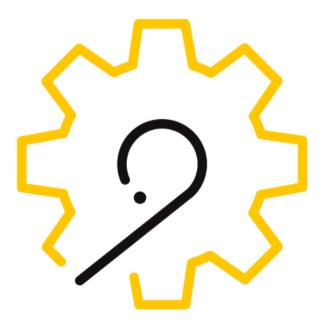
Model: KRF-OUTDOOR-SENSOR

REPORT NUMBER 240800151THC-001

ISSUE DATE Oct. 17, 2024

PAGES 5

DOCUMENT CONTROL NUMBER GFT-OP-10h (28-Nov-2018) © 2020 Intertek





TEST REPORT

RF Exposure Evaluation Report

Applicant:	King Electrical Manufacturing Company 9131 10th Avenue South Seattle,WA 98108 USA
Product:	RF REPEATER
Model No.:	KRF-REPEATER
FCC ID:	2BH5BKRF-REPEATER
Test Method/ Standard:	47 CFR FCC 1.1310 KDB 447498 D04
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist, Hsinchu City 300075, Taiwan



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Report No.: 240800151THC-001

Revision History

Report No.	Issue Date	Revision Summary		
240800151THC-001	Oct. 17, 2024	Original report		



Table of Contents

1. General Information	4
1.1 Identification of the EUT	4
1.2 Antenna description	4
1.3 Peripherals equipment	
2. RF Exposure Test Exemptions	5
3. Test results	5



Report No.: 240800151THC-001

1. General Information

1.1 Identification of the EUT

Product:	Outdoor Sensor			
Model No.:	KRF-OUTDOOR-SENSOR			
Operating Frequency:	915.055 MHz			
Channel Number:	Single channel			
Rating:	DC 3V			
Power Cord:	N/A			
Sample receiving date:	2024/09/13			
Sample condition:	Workable			
Test Date(s):	2024/09/25 ~ 2024/09/30			

1.2 Antenna description

Antenna Type:	Spring Antenna
Connector Type:	Fixed
Antenna Gain:	2.5 dB ± 2dB

1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Description of Data Cable		
Battery*2	Panasonic	ALKALINE	N/A	N/A		



2. RF Exposure Test Exemptions

1-mW Test

ExemptionPer § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

3. Test results

Mode	Frequency (MHz)	Antenna Gain (mW)	Output power (dBm)	Output power (mW)	Tune-up Power Tolerance (dB)	Max Tune-up Power (dBm)	Max Tune-up Power (mW)	Power density (mW/cm²)	Limit (mW/cm²)	Distance (cm)
FSK	915.055	2.82	-1.48	0.71	2.00	0.52	1.13	0.001	0.61	20