

King Electrical Manufacturing Company

TEST REPORT

Model:
KRFR-24V

REPORT NUMBER
240800019THC-001

ISSUE DATE
Sep. 20, 2024

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DOCUMENT CONTROL NUMBER
GFT-OP-10h (28-Nov-2018)
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RF Exposure Evaluation Report

Applicant:	King Electrical Manufacturing Company 9131 10th Avenue, South Seattle, WA 98108 USA
Product:	Wireless PTAC controller
Model No.:	KRFR-24V
FCC ID:	2BH5BKFR-24V
Test Method/ Standard:	47 CFR FCC 1.1310 KDB 447498 D01 V06
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist, Hsinchu City 300075, Taiwan



Zero Chen

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Rico Deng

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Reviewer

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Revision History

Report No.	Issue Date	Revision Summary
240800019THC-001	Sep. 20, 2024	Original report

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1. General Information**1.1 Identification of the EUT**

Product:	Wireless PTAC controller
Model No.:	KRFR-24V
Operating Frequency:	915.055MHz
Rating:	1. AC 24V, 50-60Hz 2. DC 24V
Power Cord:	N/A
Sample receiving date:	2024/08/02
Sample condition:	Workable
Test Date(s):	2024/09/11

1.2 Antenna description

Antenna Gain : 2.5 dB ± 2dB

Antenna Type : Monopole Antenna

Connector Type : Fixed

2. RF Exposure Test Exemptions

1-mW Test

Exemption Per § 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

Temperature:	24	°C
Relative Humidity:	64	%
Test Date:	2024/09/11	

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/cm ²)	Limit (mW/cm ²)
FSK	915.055	2.82	4.12	2.58	2.00	6.12	4.09	0.002	0.61

The Notice in Installation Manual has been stated as below:

While installing and operating this transmitter, the radio frequency exposure limit of 1 mW/ (cm²) may be exceeded at distances close to the transmitter. Therefore, the user must maintain a minimum distance of 20 cm from the device at all time.