

TEST REPORT

Product Name : Radio remote control
Model Number : 4-channel remote control
FCC ID : 2BBPR-4C

Prepared for : Hera GmbH &Co. KG
Address : Dieselstr.9, D-32130, Enger, Germany

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2306090084E00702R
Date(s) of Tests : June 13, 2023 to June 20, 2023
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TABLE OF CONTENT

TEST REPORT	1
1. FACILITIES AND ACCREDITATIONS	5
1.1. TEST FACILITY.....	5
1.2. LABORATORY ACCREDITATIONS AND LISTINGS.....	5
2. GENERAL PRODUCT INFORMATION	6
3. LIMIT	7
4. TEST RESULTS	8



Test Report Description

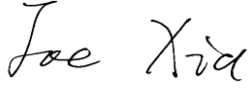
Applicant : Hera GmbH &Co. KG
Address : Dieselstr.9, D-32130, Enger, Germany
Manufacturer : Self Electronics Co., Ltd.
Address : No. 1345 Ju Xian Road Ningbo Hi Tech Park Ningbo 315103 P.R. China
EUT : Radio remote control
Model Name : 4-channel remote control
Trademark : N/A


The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the FCC 1.1310 and KDB 447498 D01 General RF Exposure Guidance v07 requirements. The test results are contained in this report and EMTEK (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test : June 13, 2023 to June 20, 2023

Prepared by : 
Moon Tan /Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Date	Summary
/	ENS2306090084E00702R	/	Original Report



1. Facilities And Accreditations

1.1. Test Facility

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.2. LABORATORY ACCREDITATIONS AND LISTINGS

Site Description
EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01.

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm
Site Location

: EMTEK (SHENZHEN) CO., LTD.

: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2. General Product Information

Characteristics	Description
Product:	Radio remote control
Model Number:	4-channel remote control
Sample Number:	ENS2306090084E007-1-1
Modulation:	MSK
Operating Frequency:	2436.199 MHz
Max Transmit Power:	96.75 dBuV/m
Antenna Type :	PCB Antenna
Antenna Gain:	5.3 dBi
Power supply:	DC EV
Temperature Range:	-20°C ~ +35°C
Date of Received:	June 9, 2023

Note: for more details, please refer to the User's manual of the EUT.

3. Limit

According to §15.249(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V07

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$

for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

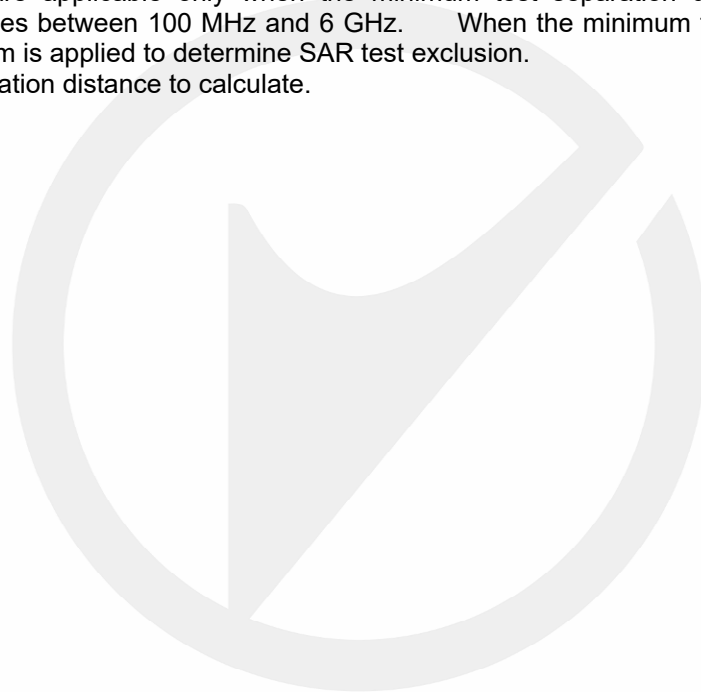
$f(\text{GHz})$ is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.



4. Test Results

Maximum measured transmitter power:

$$\text{EIRP} = E + 20 \log(d) - 104.7 = 96.75 + 9.54 - 104.7 = -1.59 \text{ dBm}$$

Transmit Frequency (MHz)	Mode	EIRP Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
2436.199	MSK	-1.59 dBm	0	0.25	3

Conclusion:

For the max result : $0.25 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

*** End of Report ***



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