



中国认可
国际互认
检测
TESTING
CNAS L5313



DEKRA

RF Exposure Evaluation Declaration

Product Name : Vehicle Dock
Model No. : CX80-VD-WL
FCC ID : HD5-CX80VDWL

Applicant : HONEYWELL INTERNATIONAL INC
Honeywell Safety and Productivity Solutions
Address : 9680 OLD BAILES RD
FORT MILL SC 29707-7539

Date of Receipt : May. 14, 2018
Test Date : May. 14, 2018~ May. 30, 2018
Issued Date : May. 30, 2018
Report No. : 1852085R-RF-US-P20V01
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, CNAS or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.

Test Report Certification

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Product Name : Vehicle Dock
Applicant : HONEYWELL INTERNATIONAL INC
Honeywell Safety and Productivity Solutions
Address : 9680 OLD BAILES RD
FORT MILL SC 29707-7539
Manufacturer : HONEYWELL INTERNATIONAL INC
Honeywell Safety and Productivity Solutions
2 、Metro(Suzhou)Technologies Co.,Ltd
Address : 1 、9680 OLD BAILES RD
FORT MILL SC 29707-7539
2 、No.221 Xinghai street China-Singapore Suzhou Industrial
Park
Model No. : CX80-VD-WL
FCC ID : HD5-CX80VDWL
Brand Name : Honeywell
EUT Voltage : DC 12V
Applicable Standard : KDB 680106 D01 RF Exposure Wireless Charging Apps v03
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
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TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

Documented By :




(Adm. Specialist: Kitty Li)

Reviewed By :



(Senior Engineer: Frank He)

Approved By :



(Engineering Manager : Harry Zhao)

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

WPT Device requirement	
<input checked="" type="checkbox"/>	Wireless power transfer frequency is below 1 MHz;
<input checked="" type="checkbox"/>	Output power from each primary coil is less than or equal to 15 watts;
<input checked="" type="checkbox"/>	The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
<input checked="" type="checkbox"/>	Client device is placed directly in contact with the transmitter;
<input checked="" type="checkbox"/>	Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
<input checked="" type="checkbox"/>	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Note: The WPT device can maintain all the six conditions above, so the RF exposure can be exempted.

_____ The End _____