









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

Issued Date : May. 30, 2018 Report No. : 1852085R-RF-US-P20V01

DEKRA

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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Harry Than

(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)

	Electric	Magnetic	Power	Average	
Frequency	Field	Field	Density	Time	
Range (MHz)	Strength	Strength	_		
	(V/m)	(A/m)	(mW/cm2)	(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: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd 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.

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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				
\boxtimes	Wireless power transfer frequency is below 1 MHz;			
\boxtimes	Output power from each primary coil is less than or equal to 15 watts;			
\boxtimes	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.			
\boxtimes	Client device is placed directly in contact with the transmitter;			
\boxtimes	Mobile exposure conditions only (portable exposure conditions are not covered by this			
	exclusion).			
\boxtimes	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.	
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