

# FCC RF EXPOSURE REPORT

**FCC ID: TE7KP400**

**Project No.** : 1807C080  
**Equipment** : Smart Outdoor Plug  
**Model** : KP400  
**Applicant** : TP-Link Technologies Co., Ltd.  
**Address** : Building 24(floors1,3,4,5) and 28(floors1-4)  
Central Science and Technology Park,  
Shennan Rd, Nanshan, Shenzhen, China

**According:** : FCC Guidelines for Human Exposure IEEE  
C95.1 & FCC Part 2.1091

## **B T L I N C .**

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,  
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

## 1. CERTIFICATION

Equipment : Smart Outdoor Plug  
Brand Name : tp-link  
Test Model : KP400  
Series Model : N/A  
Applicant : TP-Link Technologies Co., Ltd.  
Manufacturer : TP-Link Technologies Co., Ltd.  
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
Factory : TP-Link Technologies Co., Ltd.  
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
Date of Test : Jul. 17, 2018~Jul. 30, 2018  
Test Sample : Engineering Sample No.: D180705809

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1807C080) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PIFA	N/A	2.5

## 3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	22.91	195.4339	0.06918	1	Complies

Note: the calculated distance is 20 cm.