



BUREAU
VERITAS

Test Report No.: FS180102N009

RF EXPOSURE REPORT

Applicant	Universal Enterprises Inc.
Address	8760 E 33rd Street Indianapolis, IN 462 26 United States

Manufacturer or Supplier	ePlus Innovation Corp.
Address	3F-West, Litai factory Building C, Luoyang Town, Boluo District, Huizhou, Guangdong Province, China.
Product	Wireless Hygrometer Probe
Brand Name	UEI
Model	WHP1
Additional Model & Model Difference	N/A
Date of tests	Jan. 02, 2018 ~ Jan. 10, 2018

- FCC Part 2 (Section 2.1091)**
- KDB 447498 D01**
- IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department

Date: Jan. 15, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS180102N009	Original release	Jan. 15, 2018

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1. CERTIFICATION

FCC ID:	2AKE4WHP1
PRODUCT:	Wireless Hygrometer Probe
BRAND NAME:	UEI
MODEL NO.:	WHP1
ADDITIONAL NO.:	N/A
APPLICANT:	Universal Enterprises Inc.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

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)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION 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

P_i = 3.1416

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	-0.3	FPC Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
LE-GFSK	2402-2480	-2	+2	-4	0

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
LE-GFSK	2402	-0.74

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	0	-0.3	20	0.0001857	1.0

--- END ---