Supplier's Declaration of Conformity (SDoC)

The Office of the National Telecommunications Commission

Supplier's Declaration of Conformity

1. Supplier Information

1.1 Company name

Site Preparetion Management CO.,LTD

1.2 Address

Site Preparetion Management CO.,LTD 12/8-11, 4th floor AV Building, Thetsabansongkhro Road, Ladyao, Chatujak, Bangkok 10900, Thailand

2. Telecommunication equipment information

2.1 Equipment type Environmental moniter	
2.2 Brand Packetpower	2.3 Model EMB1
2.4 Conforming standards declared กสทช.มท. 1033-2560	

I hereby certify that this telecommunication equipment conforms with the technical standards or requirements enforced by the National Telecommunications Commission.

3. Supporting documents

Test reports

Test Report No. : G1404(E)/62 Test Report No. : K0390(E)/62

	USUTO POST CUSTUMUTETU HANKOHMUNT STITPT STEE COMPARATION MANAGEMENT SO, LTD.
Signed	
Position	Chief executive officer
Date	08-08-19

The supplier shall submit a completely filled Supplier's Declaration of Conformity to the Office of the National Telecommunications Commission, and keep a copy along with the support documents, to be inspected upon request by the Office of the NTC.



975 Moo 4, Bangpoo Industrial Estate Soi 8, Sukhumvit Road km.37, Phraek Sa,
Mueang Samut Prakan, Samut Prakan 10280 Tel. +66 2709 4860-8 Fax. +66 2324 0917-8

TEST REPORT

Page 1 / 18

Report No.	G1404(E)/62			
Operation No.	6206BG1497			
Name and address of customer	Site Preparetion Management co.,ltd			
,	12/8-11, 4th floor AV Building, Thetsabansongkhro Road,			
	Chatujak, Bangkok 10900, Thailand			
Sample	Sample(s) was/were submitted and identif	ied by/on behalf		
	as following:			
ı'	Environment monitor			
	Model : EMB1			
	1 Set (1 unit)			
Sample No.	BG1497			
Sample characteristic and	Normal			
Sample received date	24 June 2019	24 June 2019		
Test date	3 July 2019-15July 2019			
Issue date	26 July 2019			
Test standard	FCC Part 15 Subpart C 15.247 and 15.249 Equivalent Isotopically Radiated			
	Power			
	ETSI EN300 220-1 Clause 5.4 TX Duty Cycle			
	FCC Part 15 Subpart C 15.209 Radiated Limit			
	FCC 47 CFR Part 1 Section 1.1310 Radiofrequency radiation exposure limits			
Test report	Details of the test report as shown on the following pages			
Summary of testing				
The test results comply with stanc	lards			
Tested by		010		
(name + signature)	Mr.Pudit Palakawong Na Ayutthaya			
Approved by				
(name + signature)	Mr. Sasina Prakongkue			
Certified by	Mr.Thossaphorn Udomsinsirikul	สถางันในโป้าและอิเล็กทร อนิ กส์		
(name, function + signature)	Division manager, Operation division 3	ETENHIPHS WITH FET PARTITION WOLLD		



Report No.: G1404(E)/62

Operation No.: 6206BG1497

TEST REPORT

Page 2 / 18

Sample photo



Possible test case verdicts:

P: test object does meet the requirement

F : test object does not meet the requirement

N : test case does not apply to the test object



Report No. : G1404(E)/62

Operation No.: 6206BG1497

TEST REPORT

Page 6 / 18

3. Product Description

Product Name	Environment Monitor	
Brand Name	Packet power	
Model No	EMB1	
Serial Number		
Software		
Antenna Gain	0.5dBi	
Additional Information	The EUT is an environment meter which incorporates a 902-928 MHz radio	
	with an integral antenna	



Report No.: G1404(E)/62

Operation No.: 6206BG1497

TEST REPORT

Page 9 / 18

5. Test Result

5.1. Equivalent Isotopically Radiated Power

The e.i.r.p. shall not exceed 36dBm (4W)

Limit

The limits given in FCC sections 15.247 and 15.249 for the 902-928 MHz band are summarized in table

Table Transmit Power Limits for the 902-928 MHz Band

Transmission Type	Fundamental		Harmonics	
	E at 3m	EIRP	E at 3m	EIRP
Frequency hopping		≥50 channels: +36 dBm	20 dB below the peak in-band emission in	
Digitally spread		+36dBm	any100-kHz bandwidth	
Other	50mV/m	-1.23 dBm	500 μV/m	-41.23

Test method Distance:	:	Radiated 3m 10m			
Frequency Ra	ange	∑ 920-925MHz			
Measured field		EIRP		Limit	Verdict
dBµV/m	V/m	W	dBm	W (dBm)	Pass
109.0	0.281	0.023	13.61	4.0 (36)	F a55

Note: The Equivalent Isotopically Radiated Power was calculated from equitation

Field Strength Approach (linear terms):

 $EIRP = P \times G = (E \times d)^{2}/30$, where

P is the power in watts;

E is the measured field strength in V/m;

d is the measurement distance, d = 3m;

G is the numerical antenna gain of the transmitter G = 0.5dBi, Or G=1.122 numerical

(Declare by manufacturer)

Numeric gain (G)=10^(antenna gain/10)

Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.



TECHNICAL SPECIFICATIONS SHEET

Input: 100 to 240V AC, 50 to 60 Hz; Output: 5V DC

WIRELESS ENVIRONMENTAL MONITOR: E306-H000 (EMB1)

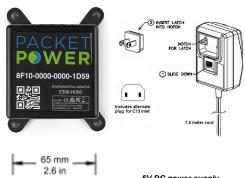


Monitoring points: 1 to 6 Relative humidity: Included Differential pressure: Not included Power source:

Measurement Points /

Probes

1 to 6



Wireless Environmental Monitor with 1-6 temperature, dry contact, and/or leak detection points via external probes. Relative humidity sensor included.

Radio zone will be set to the region where the monitor will be used. Packet Power Ethernet Gateway required to receive data from the environmental monitor

The environmental monitor attaches to a mounting bracket (included) using a 35mm DIN rail clip. Rubber bumpers on the back of the bracket can be removed to expose 0.2 inch holes that can be

5V DC power supply used for permanent mounting with mechanical fasteners **SPECIFICATIONS** ±0.3°C at 0.1°C resolution with readings in °C or °F Temperature Readings Temperature probe range: -30° to 70°C (-22° to 158°F) **Relative Humidity** 0 to 100% RH at ±2% RH at 0.1% resolution Readings

Contact Packet Power for specifics

1/32" up to 17/32"

30 seconds in moving air

Battery-powered sensor adjusts to detect water at levels from

Power Supply	Power over Ethernet available (requires a PoE splitter)		
Power Cord and Plug Types	1.5 m cord length; Plug types: C18, NEMA 5-15, CEE-7 Schuko, AS/NZS 3112 2000, BS 1363A, BS 546A, China CPCS-CCC		
Monitor Dimensions	65 mm x 65 mm x 28 mm (2.6 in x 2.6 in x 1.1 in)		
Mounting Bracket Dimensions	W: 63 mm (2.5 in) center hole to center hole L: 82 mm (3.5 in) center hole to center hole		
Monitor Weight	70 g (2.5 oz)		
Operating Temperature	Monitor: 0° to 50°C (32° to 122°F) Temperature probe: -30° to 70°C (-22° to 158°F)		
Operating Humidity	10% to 90% non-condensing		
Water and Dust Resistance	Indoor use		
Power Usage	0.5W		
Wireless Network Protocol	Frequency hopping self-configuring load-balancing mesh; Operating frequency 920.2 to 924.8 MHz when configured to the A1 radio region (e.i.r.p. <50mW)		
Wired Network Protocols	HTTPS to Packet Power EMX running locally or as cloud service; SNMP V1/V2c/V3; Modbus TCP/IP; EtherNet/IP; MTConnect		
Firmware Updates	Wireless		
Typical Transmission Range	10 to 30 meters indoors between any two devices in mesh network		
Antenna	Fully enclosed, fixed configuration		
System Status	Local LCD display		
Encryption	Optional 128-bit		
Made in USA	Yes		
Product Warranty	1 year		
Radio Certifications	FCC, Industry Canada and CE / IEC		

Time Constant

Dry Contact Readings

Leak Detection Readings