



**COMPLIANCE
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EMR Compliance Report

ARPANSA RPS3
Report Number: TR2926C
September 2020

Hyperku Marketing P/L
Temperature Wristband
Model: YH101

The results detailed in this test report relate only to the specific sample/s tested. It is the Manufacturer's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics.

EMR Compliance Certificate

Date: 17th September 2020

Client Contact: Valerie Mclean
 Hyperku Marketing P/L
 Phone: 0412230469
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Device: Temperature Wristband
 Model No: YH101

Reference Standard: ARPANSA Radiation Protection Standard:
 Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz –
 Radiation Protection Series Publication No. 3: 2002

Summary Result: Exempt (*under schedule S5.3 of ARPANSA RPS3*)

Test Date: 17th September 2020

Tests Performed by: Gabriel Mendez
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The **Temperature Wristband** complies with the requirements of ARPANSA Radiation Protection Standard: Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz – Radiation Protection Series Publication No. 3: 2002.

		23 rd September 2020
Prepared: Gabriel Mendez Test Engineer Compliance Engineering Pty Ltd	Approved: Andrew Burden Technical Manager Compliance Engineering Pty Ltd	Date

EMR Compliance Report

1. INTRODUCTION

An EMR assessment was performed on an ISM band radio transceiver in accordance with the requirements of the ARPANSA Radiation Protection Standard: Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz – Radiation Protection Series Publication No. 3: 2002. The information used for the assessment was taken from report No. 48081RRF.001 as tested by AT4 wireless, S.A.U.

2. RESULTS SUMMARY

Schedule 5 of ARPANSA RPS3 **Complies**

3. TEST SAMPLE

The equipment under test (EUT) is described as follows:

Product Name	:	Temperature Wristband	
Model Name	:	YH101	
Additional model	:	N/A	
Operation Frequency	:	Bluetooth 4.2+EDR:	2402-2480MHz
Type of Modulation	:	Bluetooth: BR+EDR	N/A
	:	Bluetooth: BLE	GFSK
Number of Channel	:	Bluetooth: BR+EDR	N/A
	:	Bluetooth: BLE	40
Antenna installation	:	PCB Antenna	
Antenna Gain	:	0 dBi	
Power supply	:	DC 3V, Battery	
Hardware Version	:	V0.3	
Software Version	:	V0.4	

4. REQUIREMENTS

(Reference: ARPANSA RPS3: Schedule 5.3)

S5.3 EQUIPMENT INTENDED FOR USE BY THE GENERAL PUBLIC

S5.3.1 Application

Sub-section S5.3 provides a means, based on equipment and usage parameters, to readily determine compliance with the spatial peak SAR restrictions of Table 2 for general public exposure of certain portable or mobile equipment. This sub-section has application to equipment intended for operation by general public users.

S5.3.2 Equipment with mean output power not exceeding 20 mW

The evaluation of mobile or portable transmitting equipment for compliance with this Standard, is not required where the nominal mean power output delivered to the antenna does not exceed 20 mW.

S5.3.3 Equipment with mean output power exceeding 20 mW

The evaluation of mobile or portable transmitting equipment for compliance with this Standard is not required where it can be demonstrated that in normal use the mean power output does not exceed the alternative low-power exclusion levels as defined in IEC 62479 (2010) when calculated for the general public spatial peak SAR limit of 2 W/kg over a 10 g averaging mass. The equations used to calculate the alternative low-power exclusion levels are provided in sub-section 5.4.

Where the above provisions are not satisfied, testing or mathematical modelling to demonstrate compliance with the spatial peak SAR restrictions specified for the general public users category in Table 2 of this Standard must be undertaken. Such measurements or calculations should be based on normal use spatial relationships between the equipment and user.

The compliance of transmitting equipment is assessed against the reference levels specified for the general public users category in Tables 7 and 8 of this standard when:

- (a) the power output exceeds 20 mW; and
- (b) normal operation entails the antenna or other radiating structure being separated from the users body by not less than 20 cm.

The compliance assessment may be by directed measurement or evaluation in accordance with the recommendations of AS/NZS 2772.2 or other appropriate guidelines.

Where operation of the equipment under unusual or inappropriate conditions is liable to exceed the spatial peak SAR restrictions of Table 2 for general public exposure, instructional material must be provided to caution the user against such usage. This should include any requirements regarding minimum separations.

TABLE S1

**SUMMARY OF COMPLIANCE PROVISIONS FOR
MOBILE OR PORTABLE TRANSMITTING EQUIPMENT**

Equipment parameters	Test exemption	Spatial peak SAR [Table 2 Occupational]	Spatial peak SAR [Table 2 General Public]	Field measurement [Tables 7 & 8 Occupational or evaluation using S5.2.3]	Field measurement [Tables 7 & 8 General Public or evaluation using S5.3.3]
Aware user exposure					
Mean power < 100 mW	✓				
Mean power < alternative low-power exclusion level of IEC 62479 for SAR _{max} = 10 W/kg	✓				
Mean power > 100 mW & separation > 20 cm				✓	
Otherwise		✓			
General public exposure					
Mean power < 20 mW	✓				
Mean power < alternative low-power exclusion level of IEC 62479 for SAR _{max} = 2 W/kg	✓				
Mean power > 20 mW & separation > 20 cm					✓
Otherwise			✓		

5. RESULTS

The nominal mean power output delivered to the antenna is tabled below:

EUT	Transmit Power (dBm)	Transmit Power (W)	Transmit Power Limit Table S1 (W)	Comment
Temperature Wristband	1.321 dBm	0.00135	0.02	Complies

The nominal mean power output delivered to the Temperature Wristband antenna is less than 20 mW, therefore in accordance with the requirements detailed in Table s1, the evaluation of this device for compliance with ARPANSA RPS3 is not required (test exemption).

6. CONCLUSION

The **Temperature Wristband** complies with the requirements of ARPANSA Radiation Protection Standard: Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz – Radiation Protection Series Publication No. 3: 2002.