

ANDREAS STIHL AG & Co. KG SAR COMPLIANCE REPORT

Report Type: FCC SAR assessment report

Model: RE 100.0 PLUS CONTROL

REPORT NUMBER: 220601928SHA-004

ISSUE DATE: October 8, 2022

DOCUMENT CONTROL NUMBER: TTRFFCCSAR-01_V1 © 2022 Intertek



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TEST REPORT

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Report no.: 220601928SHA-004

Applicant:	ANDREAS STIHL AG & Co. KG Badstrasse 115, 71336 Waiblingen. Germany					
Manufacturer:	Kindclean Electric Green Technology (Suzhou) Co., Ltd. Suzhou, Jiangsu 215009					
Factory:	Kindclean Electric Green Technology (Suzhou) Co., Ltd. Suzhou, Jiangsu 215009					
PRODUCT NAME:	Pressure washer remote controller					
TYPE/MODEL:	RE 100.0 PLUS CONTROL					
FCC ID:	2ALP8RE02B					

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:KDB447498 D01 General RF Exposure Guidance v07FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

Scoutgong

Scout Gong Project Engineer **REVIEWED BY:**

sie. li

Reviewer

Eric Li

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Revision History

Report No.	Version	Description	Issued Date		
220601928SHA-004	Rev. 01	Initial issue of report	October 8, 2022		

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Pressure washer remote controller					
Type/Model:	RE 100.0 PLUS CONTROL					
Description of EUT:	The EUT is a pressure washer remote controller which equipped with 2428 MHz module for the pressure washer.					
Rating:	High pressure washer: 120V AC, 13A, 60Hz, 1.5KW					
	Remote module: 3V DC					
EUT type:	Table top 🔲 Floor standing					
Software Version:	/					
Hardware Version:	/					
Sample Identification No.:	0220808-23-001					
Sample received date:	August 08, 2022					
Date of test:	August 09, 2022~September 28, 2022					

1.2 Technical Specification

Operation Frequency:	2400MHz ~ 2483.5MHz				
Support Standards:	SRD				
Type of Modulation:	GFSK				
	Mobile				
	🔀 Portable				
Product Type:	Fix Location				
Channel Number:	1				
Antenna Designation:	Integral PCB antenna				
Gain of Antenna:	2.02dBi max				



1.3 Description of Test Facility

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
organizations.	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

$$P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$$
$$x = -\log_{10} \left(\frac{60}{ERP_{20}\,\,{\rm cm}\sqrt{f}}\right)$$

f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula above. The example values shown in below are for illustration only.

	Distance (mm)										
()		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
Ē	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

2.2 Assessment Results

The highest EIRP adjusted with tune-up tolerance is 50.30-95.30 = -45.00 dBm = 0.00003 mW < <u>3mW (Test Exclusion Thresholds of 2450MHz at 5mm)</u>. Therefore, the SAR requirement is deemed to be satisfied without test.