

FCC RF Exposure Exemption report
for
Smoke Detector

Model No.: SDx-xxxxx-xxxxx Series

(x=0~9, A~Z or blank)

FCC ID: GX9SD32

of

Applicant: CLIMAX TECHNOLOGY CO., LTD.

**Address: No. 258, Sinhu 2nd Rd., Neihu District,
Taipei City 114, Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22507-24591-EE

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

TABLE OF CONTENTS

1	GENERAL INFORMATION	2
1.1	NOTES.....	2
1.2	TESTING LABORATORY	3
1.2.1	Location	3
1.2.2	Details of accreditation status	3
1.3	APPLICATION DETAILS	3
1.4	GENERAL INFORMATION OF TEST ITEM	4
1.5	TEST STANDARDS.....	4
2	TEST CONFIGURATION	5
2.1	TEST ENVIRONMENT	5
2.2	MEASUREMENT UNCERTAINTY	5
2.3	TEST EQUIPMENT LIST	6
3	EQUIVALENT ISOTROPIC RADIATED POWER (EIRP).....	7



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

August 20, 2025

Ken Kang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

August 20, 2025

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber/Conducted Emission

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.
Accredited no.: ./.
Street: ./.
Town: ./.
Country: ./.

1.3 Application details

Approval holder

Name: CLIMAX TECHNOLOGY CO., LTD.
Street: No. 258, Sinhu 2nd Rd., Neihu District,
Town: Taipei City 114,
Country: Taiwan (R.O.C.)

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

Date of receipt of test item: July 17, 2025

Date of test: from July 18, 2025 to August 12, 2025

1.4 General information of Test item

Description of test item: Smoke Detector

Type identification: SDx-xxxxx-xxxxx Series(x=0~9, A~Z or blank)

Brand name: ./.

Multi-listing model number: ./.

Transmitting frequency: 429.82MHz ~ 433.92MHz

Operation mode: Half-duplex

Voltage supply: Battery 3 Vd.c.

Antenna type: PCB antenna

Antenna gain: -6.56 dBi

Sample no.: #01

Classification:

Fixed Device	☒
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐

1.5 Test standards

FCC KDB Publication

447498 D04 Interim General RF Exposure Guidance v01

Special statement:

1. This test report is valid in connection to the model has been tested, any modification to the product which is different from the test model will avoid the certification of the test report.
2. This test report shall always be duplicated in full pages unless the written approval of the testing.
3. The x in model number is representing different case shape, case colors, led mask color, and control ID.
4. The model number of EUT is SD-32-FT. This model does not contain logo.



Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.63 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



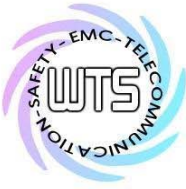
Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

2.3 Test Equipment List

Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/4/9	2026/4/8
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2025/7/11	2026/7/10
ETSTW-RE 176	Loop Antenna	FMZB 1513-60	39	SCHWARZBECK	2024/8/21	2025/8/20
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2025/3/10	2026/3/9
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
ETSTW-Cable 090	N type Cable (15m)	EMCCFD400-NM-NM-15000	230732	EMCI	2025/8/1	2026/7/31



Registration number: W6M22507-24591-EE

FCC ID: GX9SD32

3 Equivalent Isotropic Radiated Power (EIRP)

1-mW Test Exemption

429.82 MHz

The maximum power is 95.02 dBuV/m (0.9531mW)

$0.9531 \text{ mW} \leq 1\text{mW}$

433.92 MHz

The maximum power is 94.36 dBuV/m (0.8187mW)

$0.8187 \text{ mW} \leq 1\text{mW}$

The device is qualify for simultaneous transmission SAR exemption.