

TEST REPORT

Product Name : 15 Channel transmitter
Model Number : FC28
FCC ID : 2BQOD-FC28

Prepared for : NIGNBO FUTAI WINDOW AND DOOR AUTOMATION
TECHNOLOGY CO.,LTD
Address : 2/F, NO.507 Kangzhuang South Road, Jiangbei District,
Ningbo, Zhejiang Province, China

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Test Report Description

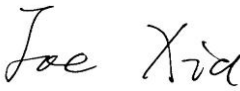
Applicant : NIGNBO FUTAI WINDOW AND DOOR AUTOMATION TECHNOLOGY CO.,LTD
Address : 2/F, NO.507 Kangzhuang South Road, Jiangbei District, Ningbo, Zhejiang Province, China
Manufacturer : NIGNBO FUTAI WINDOW AND DOOR AUTOMATION TECHNOLOGY CO.,LTD
Address : 2/F, NO.507 Kangzhuang South Road, Jiangbei District, Ningbo, Zhejiang Province, China
EUT : 15 Channel transmitter
Model Name : FC28
Trademark : FT


The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the FCC 1.1310 and KDB 447498 D01 General RF Exposure Guidance v07 requirements. The test results are contained in this report and EMTEK (NINGBO) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test : May 16, 2025 to June 07, 2025

Prepared by : 
Una Yu/Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Date	Summary
/	ENS2507040273W00402R	/	Original Report



1. Facilities And Accreditations

1.1. Test Facility

All measurement facilities used to collect the measurement data are located at

EMTEK (NINGBO) CO., LTD.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.2. LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01.

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2. General Product Information

Characteristics	Description
Product:	15 Channel transmitter
Model Number:	FC28
Modulation:	OOK
Operating Frequency Range(s):	433.92 MHz
Number of Channels:	1 Channel
Max Transmit Power:	86.44 dBuV/m
Antenna Type :	PCB Antenna
Power supply:	For Remote Control: DC 3V from Battery
Temperature Range	-40°C ~ +80°C

Note: for more details, please refer to the User's manual of the EUT.

3. Limit

According to §15.249(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V07

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

4. Test Results

Maximum measured transmitter power:

$$\text{EIRP} = E + 20 \log(d) - 104.7 = 86.44 + 9.54 - 104.7 = -8.72 \text{ dBm}$$

Transmit Frequency (MHz)	Mode	EIRP Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
433.92	OOK	-8.72	-8.00	0.05	3

Conclusion:

For the max result : $0.05 \leq 3.0$ for 1-g SAR extremity SAR.

*** End of Report ***

