



Report No.: PTC24062607801E-FC03

FCC TEST REPORT

FCC ID: 2BG5G-B200L

Product	:	Fingerprint Keyless Entry Smart Door Lock
Model Name	:	B200L
Brand	:	Desloc
Report No.	:	PTC24062607801E-FC03
Prepared for		
Zhejiang Desman Intelligent Technology Co., LTD		
Floor 1-3, Building 1, No.7 Jianghui South Road, Binjiang District, Hangzhou City, Zhejiang Province, China, 310051		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Zhejiang Desman Intelligent Technology Co., LTD

Address : Floor 1-3, Building 1, No.7 Jianghui South Road, Binjiang District, Hangzhou City, Zhejiang Province, China, 310051

Manufacture's name : Zhejiang Desman Intelligent Technology Co., LTD

Address : Floor 1-3, Building 1, No.7 Jianghui South Road, Binjiang District, Hangzhou City, Zhejiang Province, China, 310051

Product name : Fingerprint Keyless Entry Smart Door Lock

Model name : B200L

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Jul. 05, 2024 to Aug. 05, 2024

Date of Issue : Aug. 05, 2024

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T.	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 RF OUTPUT POWER	7
4.5 TEST RESULT	8



2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	2.1091	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Fingerprint Keyless Entry Smart Door Lock
Model Name	:	B200L
Additional model	:	N/A
Operation Frequency	:	2402-2480MHz NFC_13.56MHz
Type of Modulation	:	40 channels For DTS 1 channel For NFC
Antenna installation	:	PCB Antenna NFC_PCB Antenna
Antenna Gain	:	BT: 4.31 dBi NFC: 0 dBi
Power supply	:	Adapter:PS65B150Y3000S Input: AC 100-240V~50/60Hz 0.8A Output: DC 5V $\overline{\text{---}}$ 1.0A Input: 6Vdc, 200mA (4 x " AA " type dry batteries)
Hardware Version	:	SN-534-12-1
Software Version	:	6.5.12.240529



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \phi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 RF Output power

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)
13.56	49.68	-45.52

Note: EIRP=E-104.8+20logD,

Where

E is the electric field strength in dBμV/m=9.68+40(Distance Factor).

EIRP is the equivalent isotropically radiated power in dBm.

d is the specified measurement distance in m.

where D=3, EIRP=E-95.2.



Report No.: PTC24062607801E-FC03

4.5 Test Result

Test Mode	Test Frequency(MHz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
BLE_1M	2402	2.70	2.76	2.76±1	2.376840287	0.001275646	1	Pass
NFC	13.56	1.00	-45.52	-45.52±1	0.000028054	0.000000006	13.27	Pass

4.6 simultaneous MPE Result

BLE_1M MPE Ratio	NFC MPE Ratio	simultaneous MPE Ratio	MPE Limits ratio	Test result
0.000128	0.000000	0.000128	1	PASS

*****THE END REPORT*****