

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPARTC REQUIREMENT

OF

Smart Access Control Terminal

MODEL No.: F18

FCC ID: 2AJ9T-F18I

Trademark: N/A

REPORT NO: ES181130054W01

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Prepared for ZKTECO CO., LTD. No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan City, Guangdong Province, China

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VERIFICATION OF COMPLIANCE

Applicant:	ZKTECO CO., LTD. No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan City, Guangdong Province, China
Manufacturer:	ZKTECO CO., LTD. No.26, Pingshan 188 Industry zone, Tangxia Town, Dongguan City, Guangdong Province, China
Product Name:	Smart Access Control Terminal
Model Number:	F18
Trademark:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD.. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207&15.209.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	December 01, 2018 to December 16, 2018		
Prepared by :	Yaping Shen Yaping Shen/Editor		
Reviewer :	Joe Xia/Supervisor		
Approved & Authorized Signer :	Lisa Wang/Manager		



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1. GENERAL INFORMATION

1.1 Product Description

Characteristics	Description			
EUT Description	Smart Access Control Terminal			
Model Number	F18			
Device style	RFID			
Modulation	ASK			
Operating Frequency Range	125kHz			
Number of Channels	1			
Antenna Type	Coil Antenna			
Power supply	DC supply: DC 12V from external power			

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AJ9T-F18I filing to comply with Section 15.207&15.209 of the FCC Part 15 Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013) and Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Support Accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Note
1	SWITCHING ADAPTOR	FUJIA	FJ-SW1203000N	Input: AC 100-240V, 50/60Hz 1.5A Output: 12V, 3A

1.5 Equipment Modifications

Not available for this EUT intended for grant.



1.6 Test Facility

Site Description	
EMC Lab.	: Accredited by CNAS, 2016.10.24 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01: 2006(identical to ISO/IEC17025: 2005) The Certificate Registration Number is L2291
	: Accredited by TUV Rheinland Shenzhen, 2010.5.25 The Laboratory has been assessed according to the requirements ISO/IEC 17025.
	 Accredited by FCC, August 06, 2018 The certificate is valid until August 07, 2020 Designation Number: CN1204 Test Firm Registration Number: 882943
	: Accredited by Industry Canada, November 24, 2015 The Certificate Registration Number is 4480A-2



2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.10 (2013).

2.4 Limitation

⁽¹⁾ Radiated Emission

FCC Part 15, Subpart C Section 15.209 limit of radiated emission for frequency below 1000GHz. The emissions from an intentional radiator shall not exceed the field strength level specified in the following table:

FCC Part 15.209						
	Field Streng	gth	Field Strength Limitation Frequency tion at 3m			
Frequency	Limitation		Measurement Dist			
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)		
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80		
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40		
1.705 – 30.00	30	30m	100* 30	20log 30 + 40		
30.0 - 88.0	100	3m	100	20log 100		
88.0 - 216.0	150	3m	150	20log 150		
216.0 - 960.0	200	3m	200	20log 200		
Above 960.0	500	3m	500	20log 500		



15.205 Restricted bands of operation

MHz	MHz MHz		GHz	
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15	
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46	
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75	
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5	
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2	
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5	
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7	
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4	
6.31175 - 6.31225 123 - 138		2200 - 2300	14.47 - 14.5	
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2	
8.362 - 8.366 156.52475 - 156.52525		2483.5 - 2500	17.7 - 21.4	
8.37625 - 8.38675 156.7 - 156.9		2690 - 2900	22.01 - 23.12	
8.41425 - 8.41475	3.41425 - 8.41475 162.0125 - 167.17		23.6 - 24.0	
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8	
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5	
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)	

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



FCC Rule	Description Of Test	Result
15.207	AC Power Conducted Emission	Pass
15.209	Radiated Emission	Pass
2.1049	20dB Bandwidth	Pass

3. Summary of Test Results



4. CONDUCTED EMISSION TEST

4.1 Applicable Standard

According to FCC Part 15.207(a)

4.2 Conformance Limit

Conducted Emission Limit				
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56	56-46		
0.5-5.0	56	46		
5.0-30.0	60	50		

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

4.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

4.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCI	26115-010-0027	May 19, 2018	May 18, 2019
L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 19, 2018	May 18, 2019
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	May 20, 2018	May 19, 2019
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	May 20, 2018	May 19, 2019
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 19, 2018	May 18, 2019
I.S.N	Teseq GmbH	ISN T800	30327	May 20, 2018	May 19, 2019

4.6 Test Result

Pass

AC 120V &240V voltage have been tested, and the worst result recorded was report as below:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	39.16	9.56	48.72	65.36	-16.64	QP	
2		0.1620	18.26	9.56	27.82	55.36	-27.54	AVG	
3		0.5620	25.36	9.57	34.93	56.00	-21.07	QP	
4		0.5620	14.66	9.57	24.23	46.00	-21.77	AVG	
5		1.3620	17.06	9.60	26.66	56.00	-29.34	QP	
6		1.3620	9.61	9.60	19.21	46.00	-26.79	AVG	
7		6.0020	20.41	9.69	30.10	60.00	-29.90	QP	
8		6.0020	16.50	9.69	26.19	50.00	-23.81	AVG	
9		12.0020	14.79	9.83	24.62	60.00	-35.38	QP	
10		12.0020	10.87	9.83	20.70	50.00	-29.30	AVG	
11		18.0020	24.56	9.94	34.50	60.00	-25.50	QP	
12		18.0020	22.11	9.94	32.05	50.00	-17.95	AVG	





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	37.59	9.56	47.15	65.36	-18.21	QP	
2		0.1620	15.92	9.56	25.48	55.36	-29.88	AVG	
3		0.5540	16.90	9.57	26.47	46.00	-19.53	AVG	
4		0.5660	27.63	9.57	37.20	56.00	-18.80	QP	
5		2.0420	17.64	9.61	27.25	56.00	-28.75	QP	
6		2.0420	9.40	9.61	19.01	46.00	-26.99	AVG	
7		6.0020	22.14	9.69	31.83	60.00	-28.17	QP	
8		6.0020	16.64	9.69	26.33	50.00	-23.67	AVG	
9		18.0020	24.62	9.94	34.56	60.00	-25.44	QP	
10		18.0020	22.94	9.94	32.88	50.00	-17.12	AVG	
11		30.0000	27.75	10.10	37.85	60.00	-22.15	QP	
12	*	30.0000	26.13	10.10	36.23	50.00	-13.77	AVG	



5. Radiated Emission Test

5.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured was complete.

When spectrum scanned from 9KHz to 150KHz setting resolution bandwidth 200Hz and video bandwidth 1kHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	200Hz
VB	1kHz
Detector	QP
Trace	Max hold

When spectrum scanned from 150KHz to 30MHz setting resolution bandwidth 9 kHz and video bandwidth 30kHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	9kHz
VB	30kHz
Detector	QP
Trace	Max hold

When spectrum scanned from 30 MHz to 1GHz setting resolution bandwidth 120 kHz and video bandwidth 300kHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	120kHz
VB	300kHz
Detector	QP
Trace	Max hold



5.2 Test SET-UP (Block Diagram of Configuration) (A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



5.3 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	May 19, 2019
Pre-Amplifier	HP	8447F	2944A07999	May 19, 2018	May 18, 2019
Bilog Antenna	Schwarzbeck	VULB9163	142	May 19, 2018	May 18, 2019
Loop Antenna	ARA	PLA-1030/B	1029	May 19, 2018	May 18, 2019
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 20, 2018	May 19, 2019
Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 19, 2018	May 18, 2019
Cable	Schwarzbeck	AK9513	ACRX1	May 20, 2018	May 19, 2019
Cable	Rosenberger	N/A	FP2RX2	May 20, 2018	May 19, 2019
Cable	Schwarzbeck	AK9513	CRPX1	May 20, 2018	May 19, 2019
Cable	Schwarzbeck	AK9513	CRRX2	May 20, 2018	May 19, 2019

5.4 Measurement Result

Pass, see the following page





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0090	63.25	-9.35	53.90	128.50	-74.60	QP			
2	0.0198	62.54	-9.55	52.99	121.66	-68.67	QP			
3	0.0313	62.70	-9.36	53.34	117.68	-64.34	QP			
4	0.0450	59.77	-9.13	50.64	114.53	-63.89	QP			
5 *	0.0990	57.52	-9.37	48.15	107.68	-59.53	QP			
6	0.1170	54.05	-9.35	44.70	106.23	-61.53	QP			





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0182	62.63	-9.51	53.12	122.39	-69.27	QP			
2	0.0273	60.28	-9.43	50.85	118.87	-68.02	QP			
3	0.0390	61.91	-9.23	52.68	115.77	-63.09	QP			
4	0.0630	57.65	-9.47	48.18	111.61	-63.43	QP			
5 *	0.0810	60.04	-9.73	50.31	109.43	-59.12	QP			
6	0.1350	51.91	-9.35	42.56	104.99	-62.43	QP			





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0090	63.15	-9.35	53.80	128.50	-74.70	QP			
2	0.0314	63.42	-9.36	54.06	117.65	-63.59	QP			
3	0.0390	62.19	-9.23	52.96	115.77	-62.81	QP			
4	0.0630	59.15	-9.47	49.68	111.61	-61.93	QP			
5 *	0.0810	60.83	-9.73	51.10	109.43	-58.33	QP			
6	0.1170	53.92	-9.35	44.57	106.23	-61.66	QP			





Note: the Fundamental Emission is less than the spurious emission Limit, the bandage test is not need. For 0.15 MHz-30 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1723	67.28	-9.30	57.98	102.87	-44.89	QP			
2	*	1.2571	58.63	-9.22	49.41	65.64	-16.23	QP			
3		2.8071	55.67	-9.68	45.99	69.50	-23.51	QP			
4		3.7395	51.70	-9.74	41.96	69.50	-27.54	QP			
5		6.4367	50.15	-9.67	40.48	69.50	-29.02	QP			
6		13.5685	58.43	-10.12	48.31	69.50	-21.19	QP			





Mode:125K

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.1534	69.01	-9.33	59.68	103.88	-44.20	QP			
2	1.0000	57.76	-9.14	48.62	67.62	-19.00	QP			
3 *	1.6746	54.84	-9.34	45.50	63.16	-17.66	QP			
4	3.7147	54.51	-9.74	44.77	69.50	-24.73	QP			
5	5.5456	51.07	-9.65	41.42	69.50	-28.08	QP			
6	13.5685	58.02	-10.12	47.90	69.50	-21.60	QP			





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.1531	67.38	-9.33	58.05	103.90	-45.85	QP			
2 *	1.6532	57.61	-9.34	48.27	63.27	-15.00	QP			
3	2.8823	55.75	-9.70	46.05	69.50	-23.45	QP			
4	3.7296	54.86	-9.74	45.12	69.50	-24.38	QP			
5	5.7781	52.21	-9.66	42.55	69.50	-26.95	QP			
6	13.5685	58.89	-10.12	48.77	69.50	-20.73	QP			





No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		42.0036	42.93	-11.61	31.32	40.00	-8.68	QP			
2		138.0336	49.35	-15.61	33.74	43.50	-9.76	QP			
3	*	202.2962	49.12	-11.51	37.61	43.50	-5.89	QP			
4		250.3112	48.42	-9.88	38.54	46.00	-7.46	QP			
5		800.0586	34.48	0.28	34.76	46.00	-11.24	QP			
6		936.1012	34.60	2.72	37.32	46.00	-8.68	QP			





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Note:
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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	İ	42.0036	46.11	-11.61	34.50	40.00	-5.50	QP			
2	*	54.0075	46.26	-11.40	34.86	40.00	-5.14	QP			
3		126.0300	46.49	-15.06	31.43	43.50	-12.07	QP			
4		300.8725	31.93	-8.28	23.65	46.00	-22.35	QP			
5		625.0950	29.83	-1.89	27.94	46.00	-18.06	QP			
6		983.9950	28.31	3.62	31.93	54.00	-22.07	QP			



6. 20DB BANDWIDTH

6.1 Applicable Standard

According to FCC Part 2.1049

6.2 Conformance Limit

No limit requirement.

6.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

6.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (3 kHz).

Set the video bandwidth (VBW) =3 times RBW (10 kHz).

Set Span= approximately 2 to 4 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20dB down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20dB bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

6.5 Test Results

Temperature :		28 ℃		y:	Andy		
Humidity :		65 %	5 %				
Modulation Channel		Channel Frequency		20dB Ba	andwidth	Limit	Vordict
Mode	Number	(kHz)		(kl	(kHz)		veruici
ASK	0	125		7.	98	N/A	PASS
Note: N/A (Not Applicable)							





Date: 21.DEC.2018 16:10:57



7. Antenna Application

Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Result

PASS.

Note:

- Antenna use a permanently attached antenna which is not replaceable.
- Not using a standard antenna jack or electrical connector for antenna replacement

The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos