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SAFETY TEST REPORT

MEASUREMENT AND TEST REPORT

For

Shenzhen Karsun Access Technology Co.,Ltd	
F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park, Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000	
Models:	JS-QGZ008
Additional model:	JS-BGZ001，JS-BGZ002，JS-BGZ003，JS-QGZ001D，JS-QGZ002，JS-QGZ003S，JS-QGZ004S，JS-QGZ005S，JS-QGZ006S，JS-QGZ007，JS-QGZ007D，JS-QGZ008，JS-QGZ009，JS-QGZ010，JS-QGZ011，JS-QGZ012，JS-QGZ013
Equipment Type:	Full Height Turnstile
Test Standard:	EN IEC 62368-1:2018
Report Number:	GBT5020673658
Test Date:	2025-09-15 to 2025-09-23
Prepared By:	**Guangdong Baotong Quality Inspection Co.,Ltd.** Room 802,Building 22,CIMC Intelligent Manufacturing Center,No.15.Shunye West Road,Xingtan,Shunde District.Foshan,Guangdong.China
Date of issue	2025-09-23

Tested by: Reviewer: Approved:

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EMC TEST REPORT	
Applicant	
name..... :	Shenzhen Karsun Access Technology Co.,Ltd
Address..... :	F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park, Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000
Test specification:	
Standard..... :	EN IEC 62368-1:2018
Test procedure..... :	Type Test
Non-standard test method……..:	N/A
Test item	
Description..... :	Full Height Turnstile
Model and/or type reference..... :	See page 1
Additional model..... :	See page 1
Trade mark ..... :	Karsun
Rated voltage ..... :	/
Manufacturer ..... :	Shenzhen Karsun Access Technology Co.,Ltd
Address ……..:	F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park, Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000
Test item particulars	
Classification of installation and use:	N/A
Supply Connection..... :	N/A
Possible test case verdicts	
- test case does not apply to the test object :	N(.A)
- test object does meet the requirement :	P(Pass)
- test object does not meet the requirement :	F(Fail)

Summary of testing:

The product has been tested according to standard

EN IEC 62368-1:2018

- Maximum ambient temperature: +25℃
- Tested for moderate conditions

Copy of marking plate

Full Height Turnstile
Model:JS-BGZ001，JS-BGZ002，JS-BGZ003，JS-QGZ001D，JS-QGZ002，JS-QGZ003S，JS-QGZ004S，JS-QGZ005S，JS-QGZ006S，JS-QGZ007，JS-QGZ007D，JS-QGZ008，JS-QGZ009，JS-QGZ010，JS-QGZ011，JS-QGZ012，JS-QGZ013
Rating(s): 220-240V~, 50/60Hz, 30W, Class I

Shenzhen Karsun Access Technology Co.,Ltd.
Made In China

No.	Testing Item	Test Requirement	Test Result Description	Judgment
1.	Visual Inspection	The external surface of the equipment is flat, clean, free of defects such as burrs, flash, sand holes, air bubbles, etc., and free from damage including scratches, abrasion, deformation, breakage, rust, corrosion, etc.; free from traces of leakage or exudate; free from sharp protrusions, edges, or corners. The interior of transparent materials has no significant void spaces, air bubbles, flow lines, or embedded impurities. The surfaces of platings and coatings show no signs of rework, no embedded or adhered impurities, and no phenomena like cracks, blistering, or surface peeling.	Complies	Pass
2.	Marking Inspection	Equipment markings should include the following: product name, specification/model; manufacturer's name or trademark; safety warning text or symbol for pinch-hazard on barrier-type equipment; safety warning text or symbol for burn-hazard on outdoor equipment; hazardous voltage marking, protective earth marking.	Complies	Pass
		Markings may also include the following: power supply nature and polarity; rated power supply voltage; nature and function of connection terminals; rated power of the equipment.	Complies	Pass
		Markings on the equipment should be durable against erasure; durability against rubbing should comply with the requirements of GB 16796-2009 section 5.3.2.	Complies	Pass
3.	Structural Inspection	Door/cover anti-tamper structure: opening the equipment body shell requires a dedicated tool.; Equipment body should have a sturdy installation structure.; Top steel material thickness should be ≥ 1.2mm; Main shaft steel material thickness should be ≥ 2.0mm; Barrier rod steel material thickness should be ≥ 1.0mm; Guardrail steel material thickness should be ≥ 1.0mm; Nominal steel sheet thickness and tolerance: ±0.12mm	Complies	Pass
		Barrier parts should use materials and structures that are not easily broken and less	Complies	Pass

		likely to cause injury.; Movement of barrier parts should be flexible, without jamming.		
4.	Equipment Enclosure Ingress Protection (IP) Rating Test	Outdoor equipment: IP65	Complies	Pass
5.	External Mechanical Impact (IK) Rating Test for Enclosure	The personnel passage detection part and indicator part of the equipment body shell should meet IK04 requirements.; Other surfaces should meet IK07 requirements.; After testing, the equipment should show no obvious mechanical damage or deformation and should function normally.	Complies	Pass
6.	Allowed Passage/Forbidden Passage Function Check	Upon receiving manual operation or an allowed passage/forbidden passage signal from the access control system, the equipment should enter the allowed/forbidden passage state.; When in the forbidden passage state, upon receiving an allowed passage signal, after switching to the allowed passage state, it should automatically return to the forbidden passage state under the following conditions: -- When, within the allowed passage time, it is detected that personnel have passed through the channel in the designated direction; -- When the allowed passage time is exceeded and no personnel are detected in the channel. 3. The equipment should be able to be set to remain continuously in the allowed passage state/forbidden passage state.	Complies	Pass
7.	Emergency Passage Release Function Check	After power loss or a malfunction, the equipment should be able to enter a non-barrier state.	Complies	Pass
8.	Warning/Alarm Function Check	When any of the following situations occurs, the equipment should issue a warning: No allowed passage signal is received, but the equipment detects personnel entering the channel; An allowed passage signal is received, but the equipment detects personnel entering the channel in the reverse direction; Equipment fails its power-on self-test; The barrier part does not operate to its designed position; The actual time personnel take to pass through the channel exceeds the set allowed passage time. When in a warning	Complies	Pass

		state, the equipment should be able to be set to reject allowed passage commands.		
9.	Static Pull Resistance Check	When an anti-pull test is performed on a fully-installed full-height turnstile test piece, the core mechanism structure remains intact with no deformation, loosening, or other abnormalities. When the overload value reaches 1568N, the barrier rod undergoes bending deformation. This activation threshold is within the design range (1568N ± 20N), balancing the equipment's anti-damage performance and safety for personnel by providing non-rigid resistance to avoid injuries from rigid obstruction during passage.	Complies	Pass
10.	Visual/Auditory Indicator Function Check	The equipment should provide distinct visual/auditory indications for different operational states, actions, and results. Green indicates allowed passage, red indicates forbidden passage.	Complies	Pass
11.	Factory Reset Function Check	The equipment should have a function to restore it to its factory default settings.	Complies	Pass
12.	Opening Time	The equipment's opening time should preferably be ≤ 0.3s.	Complies	Pass
13.	Closing Time	The equipment's closing time should preferably be ≤ 0.3s.	Complies	Pass
14.	Allowed Entry Time Check	The equipment's allowed entry time should preferably be within the range of 1s (inclusive) to 60s (inclusive), and should preferably be adjustable.	Complies	Pass
15.	Allowed Passage Time Check	The equipment's allowed passage time should preferably be within the range of 1s (inclusive) to 60s (inclusive), and should preferably be adjustable.	Complies	Pass
16.	Noise Check	Maximum noise level is 77 dB(A).	77 dB (A)	Pass
17.	Auditory Indicator Sound Pressure Check	Auditory indicator sound pressure should preferably be within the range of 60 dB(A) (inclusive) to 90 dB(A), and should preferably be adjustable.	Complies	Pass
18.	Visual Indicator Check	Indicator lights should be clearly visible within a 22.5° viewing angle in front of the device at a distance of 3m; displayed symbols or text should be readable within a 22.5° viewing angle in front of the device at a distance of 0.8m.	Complies	Pass
19.	Power Supply	AC: 110V ~ 242V.	Complies	Pass

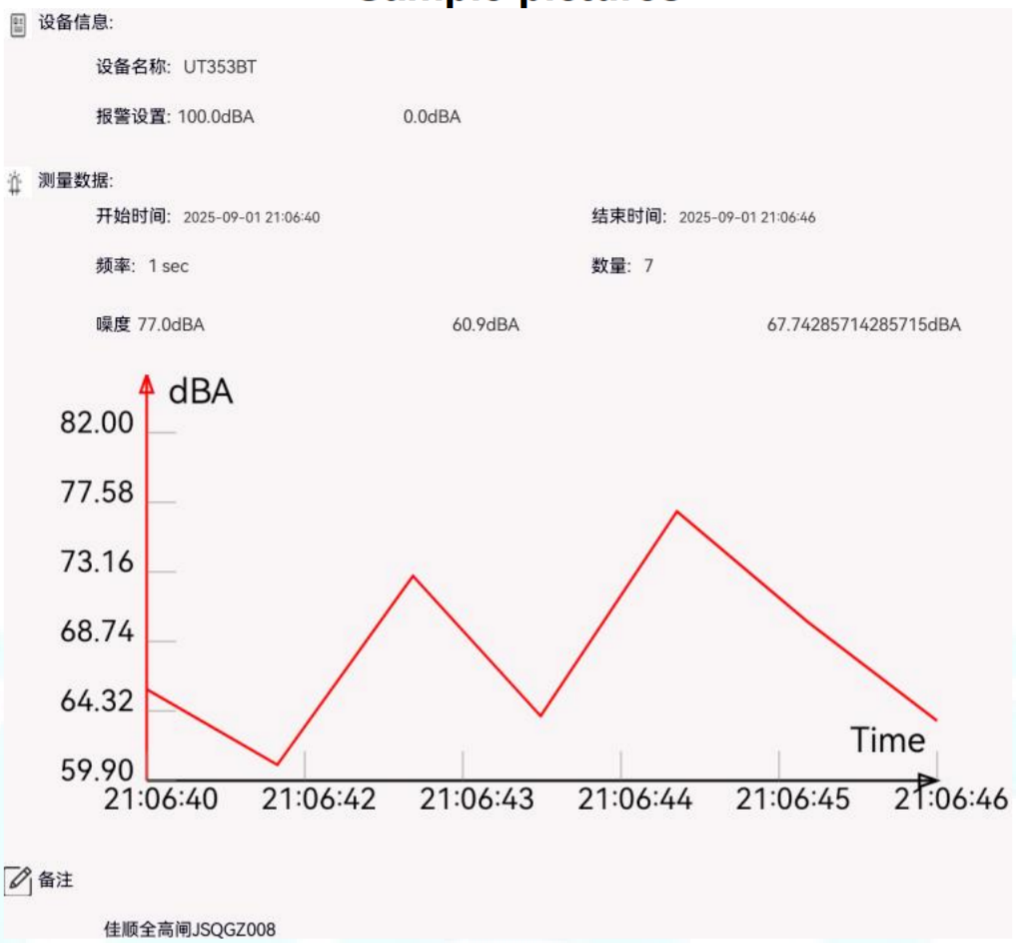
	Voltage Adaptation Range Test			
20.	Communication Control Interface Check	The equipment should have switch signal input interfaces.	Complies	Pass
		The equipment may support one or more communication interfaces, such as RS485/232/422, Ethernet, etc., and can provide real-time gate working status to a third-party platform (optional).	Complies	Pass
21.	Operation Speed Test	Check if the gate's opening/closing and passage speed meet standards and can satisfy the site's passage requirements.	Complies	Pass
22.	Load Test	Includes static load test and dynamic load test to determine the gate's bearing capacity under static conditions and its performance under dynamic loads during operation.	Complies	Pass
23.	Durability Test	Simulate long-term operation of the gate to assess its durability, checking for malfunctions or performance degradation after extended use.	Complies	Pass
24.	Signal Transmission Test	Check the stability and accuracy of the gate's signal transmission, ensuring normal communication between the gate and other equipment (e.g., control systems, card readers).	Complies	Pass
25.	Surge (Impulse) Immunity Test	AC power lines: line-to-line 0.5KV and 1KV; line-to-ground 0.5KV, 1KV and 2KV; number of surges applied per polarity: 20 times; Other power/signal lines: line-to-ground: 0.5KV and 1KV; number of surges applied per polarity: 5 times; During testing, the equipment shall not produce any malfunction or false warning; After testing, the equipment shall function normally.	Complies	Pass
26.	Electrical Fast Transient/Burst Immunity Test	Test voltage: AC ±2KV, DC and signal ports ±1KV; Number of bursts: 1; Test duration: 1min; During testing, the equipment shall not produce any malfunction or false warning; After testing, the equipment shall function normally.	Complies	Pass
27.	Voltage Dips and Short Interruptions Immunity Test	Voltage dips: 30% UT for 0.5 cycles; 60% UT for 5 cycles; During testing, the equipment shall not produce any malfunction or false warning; After testing, the equipment shall	Complies	Pass

		function normally.		
		Short interruption: 5% UT for 250 cycles; During testing, the equipment shall not produce any malfunction or false warning; After testing, the equipment shall function normally.	Complies	Pass
28.	Electrostatic Discharge (ESD) Immunity Test	Air discharge level: 2KV, 4KV and 8KV; Contact discharge level: 6KV; Number of discharges per level and polarity at each discharge location: 10 times During testing, the equipment shall not produce any malfunction or false warning; After testing, the equipment shall function normally.	Complies	Pass
29.	Anti-pinch Function Test	Simulate situations where a pedestrian or object gets pinched while passing through the gate, check if the gate automatically retracts or stops to avoid injuring the pedestrian.	Complies	Pass
30.	Emergency Stop Function Test	Test if the emergency stop button functions normally, and if the gate stops operation quickly after the button is pressed.	Complies	Pass
31.	Water/Dust Resistance Performance Test	Evaluate the gate's protection capability under water spray or high humidity environments, and its sealing & operational performance in dusty environments, ensuring safe and stable operation under different environmental conditions.	Complies	Pass
32.	Passage Safety Check	For outdoor equipment, the enclosure and barrier parts should preferably use materials with lower thermal conductivity, or preferably adopt thermal insulation protective measures, or processes that reduce the surface thermal conductivity of the equipment cover. When the equipment body shell is opened, there should preferably be protective measures to avoid injury from equipment components. During the movement of the barrier parts, if a person is detected within the operating area of the channel barrier, the barrier should stop moving or automatically move to the allowed passage state. The product manual should clearly state that the equipment management party should post corresponding passage safety signs after installation, and preferably remind the elderly and children to pass under supervision.	Complies	Pass

33.	Electrical Safety Inspection	Inspect the safety of internal electrical components of the gate, including insulation performance, grounding conditions, etc., to prevent electrical accidents like leakage.	Complies	Pass
34.	Insulation Resistance Test	Damp heat conditions: ≥ 2 MΩ	3 MΩ	Pass
35.	Leakage Current Test	≤ 5mA (AC, peak)	4mA	Pass
36.	Protective Earthing Terminal Test	The connection of the equipment to the AC power supply should adopt the method where the working neutral line and the protective earth line are strictly separated, i.e., the TN-S system. The equipment should have a protective earthing terminal. There should be a conductive, reliable direct connection between this terminal and the accessible conductive parts, with a contact resistance of ≤ 0.1Ω.	0.08Ω	Pass
37.	Temperature Rise Test	Under normal operating conditions, the surface temperature of the equipment should not exceed 75°C. After internal heat-generating components work continuously for 4 hours, their temperature rise should not exceed the specified value for that component.	56°C	Pass
38.	Electric Strength Withstand Test	1.5KV for 1 minute without breakdown or flashover.	Complies	Pass
39.	Protection Against Electric Shock of Accessible Parts Test	The equipment should be equipped with a protective earthing terminal or connector, reliably connecting accessible conductive parts to the grounding terminal or connector of the output socket.	Complies	Pass
40.	High Temperature Test	Indoor (+55±2)°C, 16h	—	Pass
		Indoor (+75±2)°C, 16h	Complies	Pass
41.	Low Temperature Test	Indoor (-10±3)°C, 16h	—	Pass
		Indoor (-25±3)°C, 16h	Complies	Pass
42.	Damp Heat Endurance Test (Constant Humidity)	(99±3)% relative humidity, (+40±2)°C, 48h	Complies	Pass
43.	Mean Time Between Failures (MTBF) in Cycles	8 million opening/closing cycles.	Complies	Pass
44.	Passage Speed	1. Constant open state of gate: ≥ 45 people/minute 2. Constant closed state of	Complies	Pass

		gate: ≥ 25 people/minute		
45.	Drive Mechanism	Gate machine core main shaft is integrally formed.	Complies	Pass
46.	Passage Width	Channel clear width meets requirements for human passage.	Complies	Pass

Sample pictures



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