

Shenzhen CTL Testing Technology Co., Ltd. Tel:+86-755-89486194 E-Mail:ctl@ctl-lab.com

TEST REPORT		
Report Reference No	CTL2208179021-IP	
Tested by (name + signature):	Ac Li AE检检测	
Supervised by (name + signature):	May Guo Ethan Chen	
Approved by (name + signature):	Ethan Chen	
Date of issue	Nov. 10, 2022.	
Testing Laboratory Name	Shenzhen CTL Testing Technology Co., Ltd.	
Address:	Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055s	
Testing location	Shenzhen CTL Testing Technology Co., Ltd.	
Applicant's name:	Shenzhen QianWen Information Technology Co., Ltd	
Address:	Room 201, Building A, No. 1, Wanqian 1st Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China.	
Test specification:		
Test specifications / Test standard :	Verification test according to sub-clause 13.4 and 14.2.7(IP67) of IEC 60529:1989+A1:1999+A2:2013	
IP code:	IP67	
Test procedure:	Test report	
Non-standard test method	N/A	
Test item description	Radio Frequency Identification	
Trade Mark	N/A	
Manufacturer	Shenzhen QianWen Information Technology Co., Ltd	
	Room 201, Building A, No. 1, Wanqian 1st Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China.	
Model/Type reference:	RF-HM18, RF-HM18-R4, RF-HY18R-R4	
Test result :	Refer to the next pages.	

1. Function / Description :

Radio Frequency Identification powered by DC24V, electronic components mounted on PCB, housed with plastic enclosure.

RF-HM18, RF-HM18-R4, RF-HY18R-R4 have same electrical circuit, PCB and BOM, Only model's name are different for marketing requirement.

All tests were conducted on the representative model RF-HM18

2. Summary of testing and conclusion :

Clause 13.4

- The test is made using a dust chamber.
- The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 um and the nominal width of a gap between wires 75 um. The amount of

talcum powder to be used is 2 kg per cubic meter of the test chamber volume.

Clause 14.2.7

- The lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water
- The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water
- The duration of the test is 30 min.
- The water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.

The test was done in the Shenzhen CTL Testing Technology Co., Ltd.;

Tests were performed on Oct.21, 2022.

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3. Test Result:

CLAUSE	
13.4 Test for first characteristic numeral 6 (IP6X)	
After Testing:	
No dust enter into the enclosure inside.	Pass

CLAUSE 14.2.7 Test for second characteristic numeral 7 (IPX7)	
No water enter into the enclosure inside.	Pass
• After test, The sample can be operated normally, No damage to the safety of the sample	
Electric strength test: between live part and enclosure: 500Vac / 1 min	N/A

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4. Photo document









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