

IP Code TEST

On Behalf of

Matrix Research Limited

13.56MHz contactless smartcard reader

**Model: 91HF01, 91HF02, 91HF03, 91HF04, 91HF05, 91HF06,
91HF07, 91HF08, 91LF01, 91LF02, 91LF03, 91LF04,
91LF05, 91LF06, 91LF07, 91LF08**

Prepared For : Matrix Research Limited

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Wan, Hong Kong.**

Prepared By : Most Technology Service Co., Limited

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Date of receipt of test item : December 26, 2012

Report Reference Number : MTS/ZNC/T13010047

IP Test Report

EN 60529: 1991+A1:2000

Degrees of protection provided by enclosures (IP cord)

Report

Reference No.: MTS/ZNC/T13010047

Tested by (+signature): Zeeron Chen

Approved by (+signature): Yvette Zhou



Date of issue: January 16, 2013

Testing laboratory

Name: Most Technology Service Co., Limited

Address: No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

Testing Location: As above

Applicant

Name: Matrix Research Limited

Address: Unit 22, 16/F, Block A, Hi-Tech Industrial Centre, 5-21 Pak Tin Par Street, Tsuen Wan, Hong Kong.

Test Specification

Standard: EN 60529:1991+A1:2000

Procedure deviation: N/A

Non-standard test method: N/A

Test item

Description: 13.56MHz contactless smartcard reader

Trademark: ACX

Model/Type reference: 91HF01

IP Code: IP65

Manufacturer: Zhongshan MATRIX Electronic Technology Co., LTD

Address.....: Room 310, Zhongshan Torch Development Center, Zhongshan Torch Development Zone, 33 Kangle Avenue, Guangdong Province, China

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)

General remarks

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see appended table)" refers to a table appended to the report.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

General Product information:

Remark :

Attached with:

- A. 2 pages of test for protection against solid foreign objects and water
- B. 1 page of photograph of test sample

Summary of testing:

All the test were conducted in the model of 91HF01. It complied with requirement of the standard. all model are the same, except the model number.

EN 60529			
Cl.	Requirement – Test	Result - Remark	Verdict

5.	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral		P
5.1	Protection against access to hazardous parts		P
5.2	Protection against solid foreign objects	6:protected against Dust-tight	P

6.	Degrees of protection against ingress of water indicated by the second characteristic numeral		P
	Second characteristic numeral	5: protected against water jets	P

13.	Tests for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1	Test means		P
13.2	Test conditions for first characteristic numerals 1,2,3,4		N/A
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4		N/A
13.4	Dust test for first characteristic numerals 5 and 6		P
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test conditions for first characteristic numeral 5		N/A
13.5.2	Acceptance conditions for first characteristic numeral 5		N/A
13.6	Special conditions for first characteristic numeral 6		P
13.6.1	Test conditions for first characteristic number 6		P
13.6.2	Acceptance conditions for first characteristic numeral 6		P

EN 60529			
Cl.	Requirement – Test	Result - Remark	Verdict
14.	Tests for protection against water indicated by the second characteristic numeral		P
14.1	Test means	See annex: test for protection against water	P
14.2	Test conditions	See annex: test for protection against water	P
14.2.5	Test for second characteristic numeral 5 with the 6.3mm nozzle	See annex: test for protection against water	P
14.3	Acceptance conditions	Ingress of water in quantities causing harmful effects is not possible.	P