FUZHOU FURI ELECTRONICS CO., LTD.

TEST REPORT

Prepared For:	FUZHOU FURI ELECTRONICS CO., LTD. 37 Building, B Zone, Pushang Park, Jinshan Industrial District, Fuzhou, Fujian, China
Product Name:	WATERPROOF SCALE
Trade Name:	FURI
Main Test Model:	FWS
Additional Model:	WPS, WPB, WPS-P, WP-ACS, FR-EJ, FEC
Prepared By :	BST Testing (Shenzhen) Co., Ltd.
	No. 7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test date:	Sep. 10, 2019 - Sep. 16, 2019
Date of Report :	Sep. 16, 2019
Report No.:	BSTXD190912297001SR

IP CODE Report

EN 60529

Degrees of protection provided by enclosures

Testing Laboratory Name ..... :	BST Testing (Shenzhen) Co., Ltd.
Address ..... :	No. 7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Testing location ..... :	BST Testing (Shenzhen) Co., Ltd.
Applicant's Name ..... :	FUZHOU FURI ELECTRONICS CO., LTD.
Address ..... :	37 Building, B Zone, Pushang Park, Jinshan Industrial District, Fuzhou, Fujian, China
Manufacturer …… ……	FUZHOU FURI ELECTRONICS CO., LTD.
Address …… ……	37 Building, B Zone, Pushang Park, Jinshan Industrial District, Fuzhou, Fujian, China
Test specification	
Standard ..... :	EN 60529:1991+A1:2000+A2:2013
Procedure deviation ..... :	IP65
Non-standard test method ..... :	N/A
Test item description ..... :	WATERPROOF SCALE
Trade Name.....	FURI
Model and/or type reference ..... :	See page 1
Test case verdicts	
Test case does not apply to the test object ... :	N/A
Test item does meet the requirement ..... :	P(ass)
Test item does not meet the requirement ..... :	F(ail)

General remarks：

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

The test results presented in this report relate only to the item(s) tested.

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

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

General product information:

Note: The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name, so, we select FWS to test.

Prepared by :	Lanya Li	Engineer
Reviewer :	Jacky Zhang	Supervisor
Approved & Authorized Signer :	APPROVED	Manager

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Cl.	Requirement – Test	Result	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		N
	First characteristic numeral is 4 --Protected against access to hazardous parts with a wire. The access probe of 1,0 mm shall not penetrate		N
5.2	Protection against access solid foreign objects	IP6X	P
	First characteristic numeral is 6 --Dust-tight No ingress of dust	No dust in model	P
6	**Degrees of protection against ingress of water indicated by the second characteristic numeral**		P
	Second characteristic numeral is 5 -- Water projected in jets against the enclosure from any direction shall have no harmful effects	IPX5 No harmful effects.	P
10	**Marking**		N
	The requirements for marking shall be specified in the relevant product standard. Where appropriate, such a standard should also specify the method of marking which is to be used when - one part of an enclosure has a different degree of protection to that of another part of the same enclosure; - the mounting position has an influence on the degree of protection; -the maximum immersion depth and time are indicated.	No marking	N

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Cl.	Requirement – Test	Result	Verdict

11	**General requirements for tests**		P
Cl.	Requirement – Test	Result	Verdict
11.1	Atmospheric conditions for water or dust Tests: Temperature range:15 ℃ to 35 ℃ Relative humidity: 25% to 75% Air pressure: 86 kPa to 106 kPa (860 mbar to 1 060 mbar).	Temperature range: 15 ℃ to 35 ℃ Relative humidity: 25% to 75% Air pressure: 86 kPa to 106 kPa (860 mbar to 1 060 mbar).	P
11.2	Test samples The tests specified in this standard are type tests.	Type tests.	P
12	**Tests for protection against access to hazardous parts indicated by the first characteristic numeral**		P
12.1	Access probes The test wire of 1,0 mm 0 shall not penetrate and adequate clearance shall be kept	IP6X	P
12.2	Test conditions For tests on low-voltage equipment, a low-voltage supply (of not less than 40 V and not more than 50 V) in series with a suitable lamp should be connected between the probe and the hazardous parts inside the enclosure. Hazardous live parts covered only with varnish or paint, or protected by oxidation or by a similar process, are covered by a metal foil electrically connected to those parts which are normally live in operation. The signal-circuit method should also be applied to the hazardous moving parts of high-voltage equipment. Internal moving parts may be operated slowly, where this is possible.		P
12.3	Acceptance conditions: The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.		P

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Cl.	Requirement – Test	Result	Verdict
13	**Tests for protection against solid foreign objects indicated by the first characteristic numeral**		P
13.1& 13.2	Test means & Test conditions Test means and the main test conditions are given in Table VII		P
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4 The protection is satisfactory if the full diameter of the probe specified in Table VII does not pass through any opening.	IP6X The protection is satisfactory	P
13.4	Dust test for first characteristic numerals 5 and 6 The test is nade using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. the talcum powder used shall be able to pass through a square-meshed sleve the nominal wire diameter of which is 50 um and the nominal width of a gap between wires 75um.the amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.	IP6X Talcum powder to be used is 2 kg per cubic metre of the test chamber volume	P

EN 60529			
Cl.	Requirement – Test	Result	Verdict
14	**Tests for protection against water indicated by the second characteristic numeral**		P
14.1	Test means & Test conditions Test means and the main test conditions are given in Table VIII		P
14.2.5	The sample is subjected to water jetting from a nozzle with a 6.3-mm-diameter opening at a flow rate of 12.5L/min. Each surface of the enclosure is to be tested for 1 minute at a distance from the jet nozzle of 2.5 – 3.0m, with no less than 3 minutes of total test time.	IPX5 Water jetting from a nozzle with a 6.3-mm-diameter opening at a flow rate of 12.5L/min.	P
14.3	Acceptance conditions After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.8 the enclosure shall be inspected for ingress of water. It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any. In general, if any water has entered, it shall not: -be sufficient to interfere with the correct operation of the equipment or impair safety; - deposit on insulation parts where it could lead to tracking along the creepage distances; - reach live parts or windings not designed to operate when wet;- accumulate near the cable end or enter the cable if any. If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment. For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.	No harmful effects water no entered	P

ANNEX A:

Photo-documentation


ELECTRONIC SCALE
UNIT
ON OFF
%
ZERO
Furi
FWS SERIES






UNIT
%
ZERO