

Bay Area Compliance Laboratories Corp. (Shenzhen)

EN60529: 1991+A1:2000
Measurement and Test Report
BONSO ELECTRONICS LTD
MODEL: HCN20K50IP

BACL Report File No.: RSZ07092503-3

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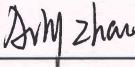
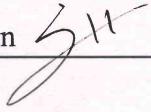
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Measurement and Test Report

For
BONSO ELECTRONICS LTD

59 Da Yang Road, Da Yang Synthetical Develop District, Fu yong, Shen zhen, China

Model: HCN20K50IP

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: STAINLESS STEEL HANGING SCALE
Test Engineer: Arly Zhao 	
Test Date: 2007-09-26	
Reviewed By: Safety Engineer: Jeanne Han 	
Prepared By: Bay Area Compliance Laboratory Corp. (Shenzhen). 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong, P.R.China	

Note: This test report is specially limited to the above client company and product model only. It may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corp. (Shenzhen). This report must not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The **BONSO ELECTRONICS LTD**'s product, model **HCN20K50IP** or the "EUT" as referred to in this report is a **STAINLESS STEEL HANGING SCALE**.

1.2 Objective

The following Declaration of Conformity of a device is prepared on behalf of **BONSO ELECTRONICS LTD** in accordance with EN 60529: 1991 + A1:2000, Degrees of protection provided by enclosures (IP code). The objective of the manufacturer is to demonstrate compliance with EN 60529: 1991 + A1:2000. Currently, EN 60529: 1991 + A1:2000 tests to be performed. They are as follows:

- Test for protection against SOLID FOREIGN OBJECT (IP6X) (CLAUSE13.4&13.6)
- Test for protection against water (IPX5) (CLAUSE14.2.5)

Data has been collected, reduced, and analyzed within this report in accordance with EN 60529: 1991 + A1:2000. In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with EN 60529: 1991 + A1:2000, Degrees of protection provided by enclosures (IP code).

All measurement was performed at Bay Area Compliance Laboratory Corp. (Shenzhen).

1.5 Test Equipment List

S/N	Manufacturer and Model	Instrument Type	Instrument I.D	Cal. Last Date	Cal. Due Date
1	Liton Machine Factory/ BT-T002-D4	Spraying & Splashing Tester	A0302196	2005-11-14	2007-11-14
2	Guangzhou gongwen test equipment Co.,Ltd/ SC-500	Dust chamber	A0411367	2006-11-13	2008-11-13

1.6 Equipment Under Test (EUT)

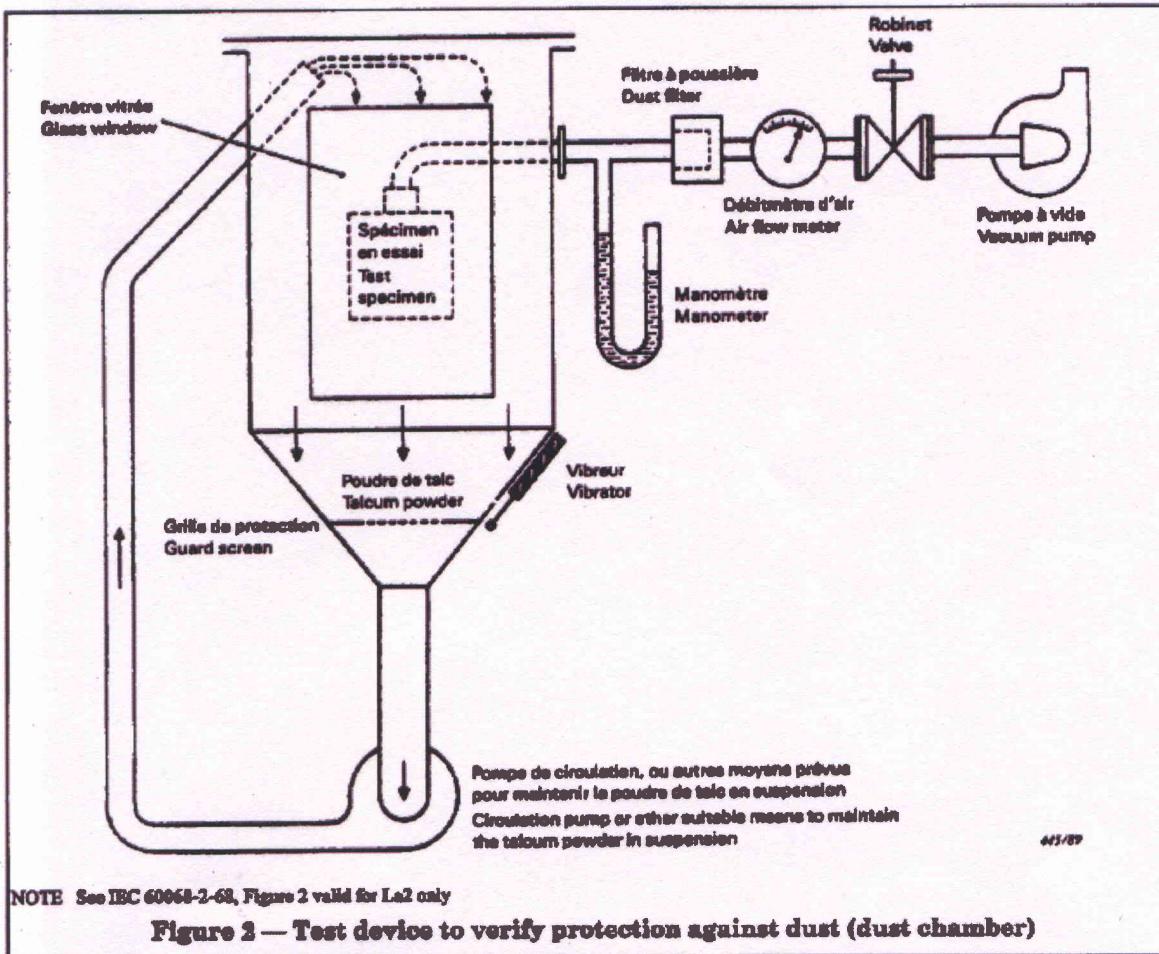
Manufacturer	Description	Model	Safety Class	Brand Name	Cert.
BONSO ELECTRONICS LTD	STAINLESS STEEL HANGING SCALE	HCN20K50IP	III	KERN	DOC

2- Test for protection against solid foreign object characteristics numerals 6 (IP6X) (CLAUSE13.4&13.6)

2.1 Method

Placed the EUT in the test device like the follow figure.

- 1) Placed the EUT in the dust-chamber, wire diameter is 50 μ m, width of a gap between wire is 75 μ m with underpressure.
- 2) Test duration is 8 hours.



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2.2 Results

- (x) No deposit of dust inside the enclosure at the end of test.
- (x) After the test, the sample can work properly, no safety hazard.
- (x) The EUT comply with the requirement Test for protection against solid foreign object characteristics numerals 6 (IP6X) (CLAUSE13.4&13.6)

3- Test for protection against water characteristics numerals 5 (IPX5) (CLAUSE14.2.5)

3.1 Method

Test device to verify protection against water jets (hose Nozzle) like the follow figure.

- 1) Nozzle 6.3mm diameter, distance 2.5m to 3m, $12.5 \pm 0.625 \text{L/min}$.
- 2) Test duration is $1\text{min}/\text{m}^2$ at least 3min.

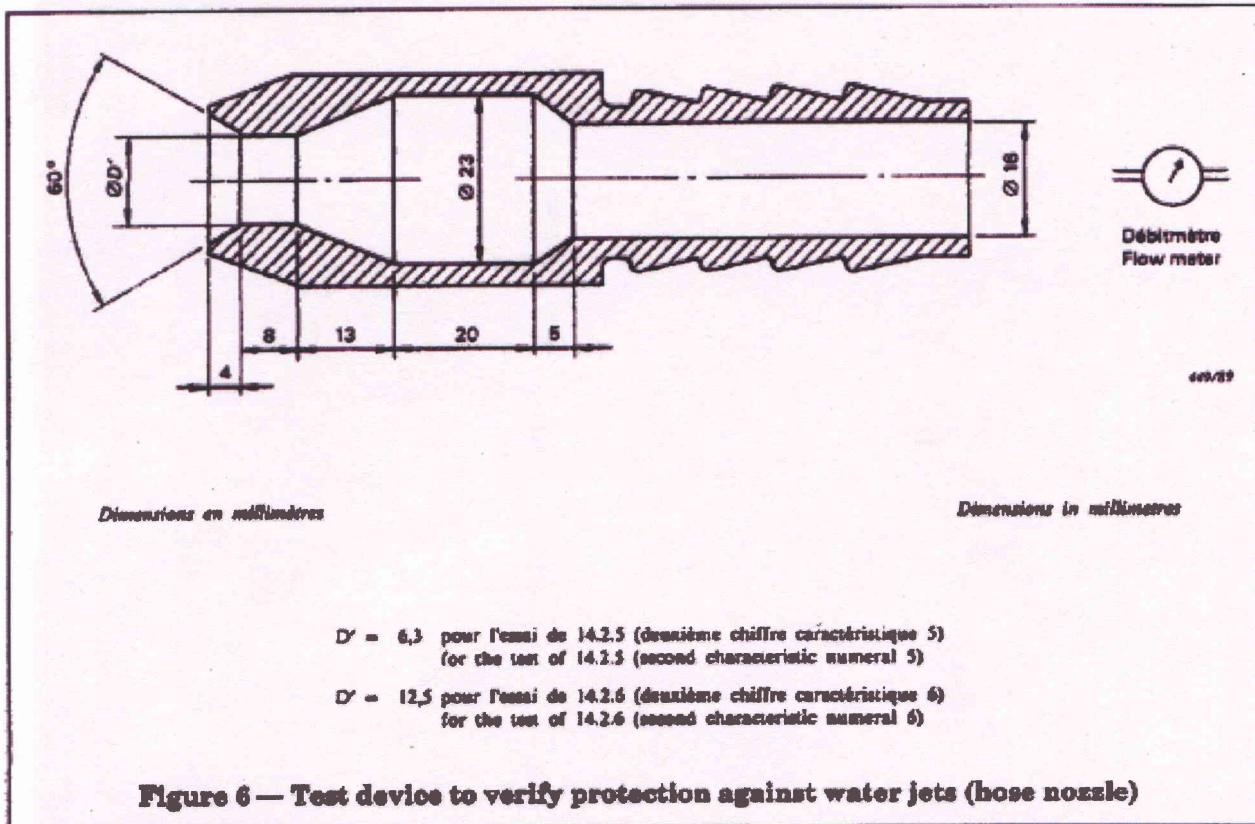


Figure 6 — Test device to verify protection against water jets (hose nozzle)

3.2 Results

- (x) No water accumulate inside the enclosure.
- (x) After the test, the sample can work properly, no safety hazard.
- (x) The EUT comply with the requirement Test for protection against water characteristics numerals 5 (IPX5) (CLAUSE14.2.5)

4- EUT PHOTOGRAPHS

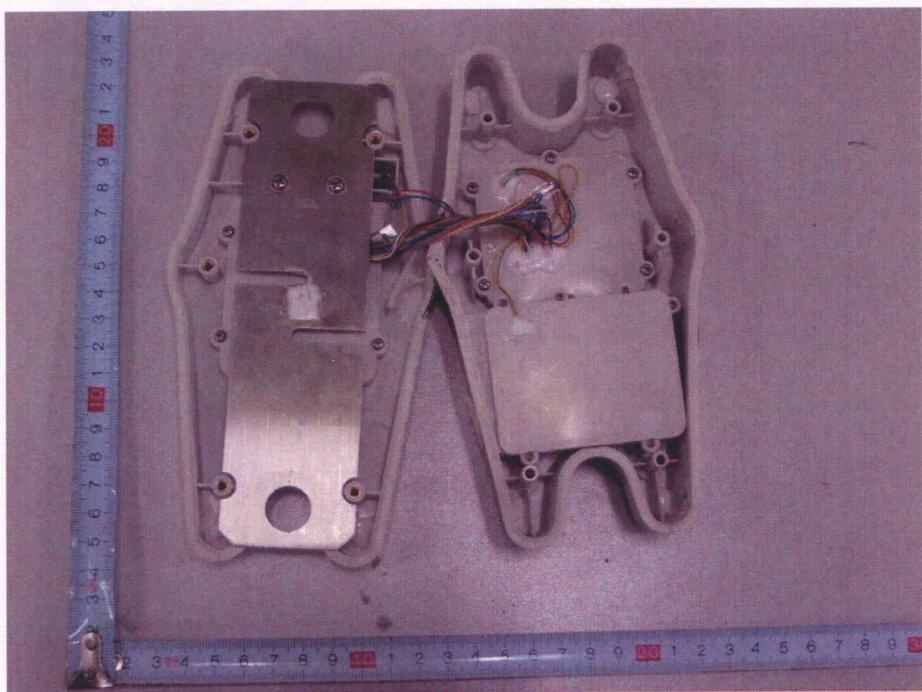
4.1 EUT-Whole View 1



4.2 EUT- Whole View 2



4.3 EUT-Inside View



APPENDIX A-USER'S MANUAL

APPENDIX B-CIRCUIT SCHRMATICS DIAGRAM&PCB LAYOUT
