



<b>Prüfbericht - Nr.: 11012856 001</b>		<b>Seite 1 von 1</b>	
<i>Test Report No.:</i>		<i>Page 1 of 1</i>	
<b>Auftraggeber:</b>	Gainta Industries Ltd.		
<i>Client:</i>	1F., No. 30, Lane 54, Chung Cheng Road, Hsin Tien City, Taipei Hsien, Taiwan R.O.C.		
<b>Gegenstand der Prüfung:</b>	Sealed enclosure		
<i>Test item:</i>			
<b>Bezeichnung:</b>	HQ001S, HQ003S, HQ005S,	<b>Serien-Nr.:</b>	Engineering sample
<i>Identification:</i>	HQ007S, HQ009S, HQ011S, HQ013S, HQ015S, HQ017S, HQ019S	<i>Serial No.:</i>	
<b>Wareneingangs-Nr.:</b>	TCH20852, TCH20923	<b>Eingangsdatum:</b>	10.03.2008, 18.03.2008
<i>Receipt No.:</i>		<i>Date of receipt:</i>	
<b>Prüfört:</b>	TÜV Rheinland Taiwan Ltd., Taichung Laboratory		
<i>Testing location:</i>	10F, No. 219, Min Chuan Road, Taichung 403, Taiwan, R.O.C.		
<b>Prüfgrundlage:</b>	IEC 60529: 2001		
<i>Test specification:</i>			
<b>Prüfergebnis:</b>	<b>Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).</b>		
<i>Test Result:</i>	<i>The test item passed the test specification(s).</i>		
<b>Prüflaboratorium:</b>	TÜV Rheinland Taiwan Ltd., Taichung Laboratory		
<i>Testing Laboratory:</i>	10F, No. 219, Min Chuan Road, Taichung 403, Taiwan, R.O.C.		
<b>geprüft/ tested by:</b>	<b>kontrolliert/ reviewed by:</b>		
<i>24.03.2008</i>	Julia Lai / Project Engineer		<i>24.03.2008</i>
<b>Datum</b>	<b>Name/Stellung</b>	<b>Unterschrift</b>	<b>Datum</b>
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	<i>Date</i>
			Jordan Wu / Project Manager
			
			<b>Unterschrift</b>
			<i>Signature</i>
<b>Sonstiges/ Other Aspects:</b>			
This test report consists of : 2 pages to IP67 test according to IEC 60529			
<b>Abkürzungen:</b>	<b>P(ass)</b> = entspricht Prüfgrundlage	<b>Abbreviations:</b>	<b>P(ass)</b> = passed
	<b>F(all)</b> = entspricht nicht Prüfgrundlage		<b>F(all)</b> = failed
	<b>N/A</b> = nicht anwendbar		<b>N/A</b> = not applicable
	<b>N/T</b> = nicht getestet		<b>N/T</b> = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>			
<i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

**TEST REPORT****IEC 60529****Degrees of protection provided by enclosures  
( Partially for IP67 test )**

Report reference No. ....	11012856 001
Compiled by (+ signature) .....	see cover sheet .....
Approved by (+ signature) .....	see cover sheet .....
Date of issue .....	see cover sheet
Testing laboratory .....	TÜV Rheinland Taiwan Ltd., Taichung Laboratory.
Address .....	10F, No. 219, Min Chuan Road, Taichung 403, Taiwan, R.O.C.
Testing location .....	as above
Applicant .....	Gainta Industries Ltd.
Address .....	1F., No. 30 , Lane 54 , Chung Cheng Road , Hsin Tien City , Taipei Hsien , Taiwan R.O.C.
Standard.....	IEC 60529: 2001
Test Report Form No.....	T529B
TRF originator.....	TÜV Rheinland Taiwan Ltd., Taichung Laboratory.
Master TRF .....	02.2002
Copyright blank test report .....	TÜV Rheinland Taiwan Ltd., Taichung Laboratory.
Test procedure .....	TÜV Rheinland-Partial Test Report
Procedure deviation.....	N.A.
Non-standard test method.....	N.A.
Type of test object .....	Sealed enclosure
Model/type reference.....	HQ001S, HQ003S, HQ005S, HQ007S, HQ009S, HQ011S, HQ013S, HQ015S, HQ017S, HQ019S
Possible test case verdicts:	
- test case does not apply to the test object .....	N(A.)
- test object does meet the requirement .....	P(ass)
- test object does not meet the requirement .....	F(ail)

Clause numbers between brackets refer to clauses in IEC 60529.

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

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

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

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 testing laboratory.

Difference among models HQ001S, HQ003S, HQ005S, HQ007S, HQ009S, HQ011S, HQ013S, HQ015S, HQ017S, HQ019S is that dimensions are different as follow.

ITEM NO.	External Dimension ( mm )			ITEM NO.	External Dimension ( mm )		
	Length	Width	Height		Length	Width	Height
HQ001S	96	96	45	HQ011S	274	173	100
HQ003S	96	96	67	HQ013S	150	100	50
HQ005S	192	96	45	HQ015S	150	100	75
HQ007S	192	96	67	HQ017S	200	150	50
HQ009S	274	173	66	HQ019S	200	150	75

HQ001S and HQ011S are the representative models for IP6X test. HQ005S is the representative model for IPX7 test.

The IP67 tests are based on IEC 60529 only, no any other product standard is referred.

Clause	Requirement-Test	Result – Remark	Verdict
4.	Designations:		P
4.1	Arrangement of the IP Code: IP67 degree defined by manufacturer	IP67 symbol marked on marking label.	P
13.4	Test for first characteristic numeral 6 in dust chamber:		P
	Test condition: Dust chamber contain 2kg of talcum powder for per cubic metre of its volume. - Test duration : 8 hr	The enclosure is in category 1. After test, no deposit of talcum powder inside enclosure.	P
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15m and 1m		P
	Test condition: sample completely immersed in water in its normal service position Dept of immersion: 1m (between lowest point of enclosure and surface of the water) Duration of test: 30 minutes	No water entered the enclosure.	P

Measuring and Test Equipment List for:

<b>Customer:</b>	Gainta Industries Ltd. 1F, No. 30
<b>Description:</b>	Sealed Enclosure, HQ001, HQ003, HQ005, HQ007, HQ009, HQ011, HQ013, HQ015, HQ017, HQ019

<b>Job Number:</b>	0113103086	<b>Report#:</b>	(12) 2856 001
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ID#	Type	Model	Calib. until
04-2001-0272	Stopwatch	Sport	21/05/2008
04-2005-0453	Dust-proof Tester	DU-80	30/03/2008



Product: Sealed enclosure

Type Designation: See page 7



Picture 1 HQ011S



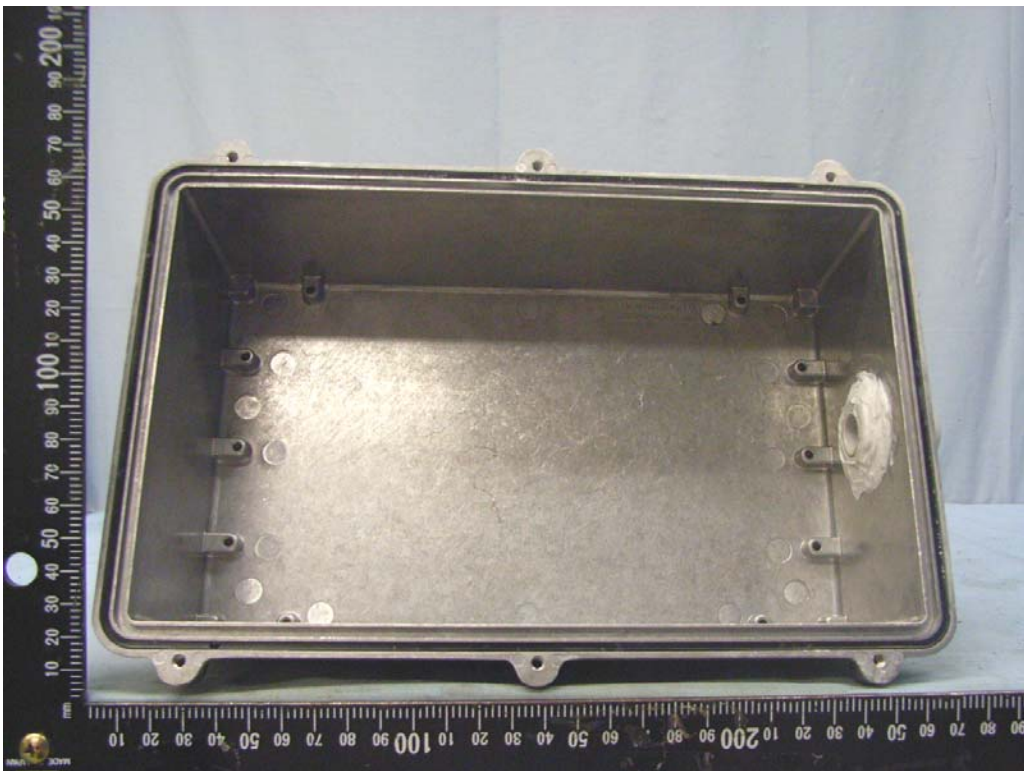
Picture 2 HQ011S

Product: Sealed enclosure

Type Designation: See page 7



Picture 3 HQ011S



Picture 4 HQ011S

Product: Sealed enclosure

Type Designation: See page 7



Picture 5 HQ011S



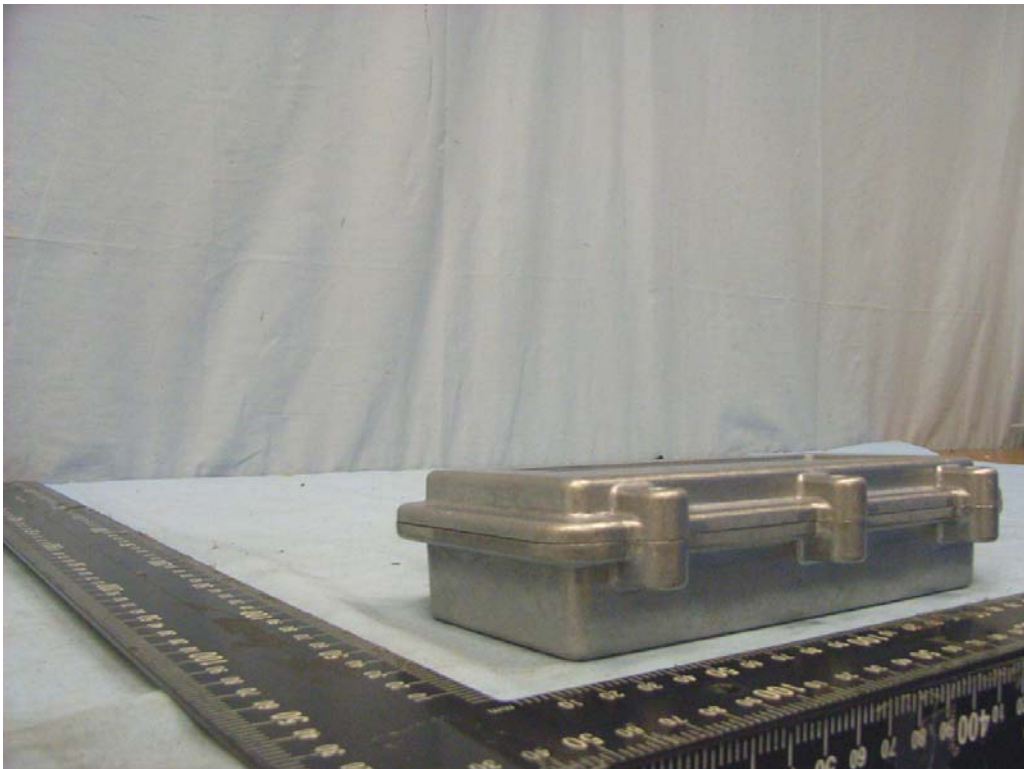
Picture 6 HQ005S

Product: Sealed enclosure

Type Designation: See page 7



Picture 7 HQ005S



Picture 8 HQ005S



Product: Sealed enclosure

Type Designation: See page 7



Picture 9 HQ005S



Picture 10 HQ001S

Product: Sealed enclosure

Type Designation: See page 7



Picture 11 HQ001S



Picture 12 HQ001S

Product: Sealed enclosure

Type Designation: See page 7

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