

<b>Prüfbericht - Nr.:</b> L113061055		<b>Seite 1 von 1</b>	
<i>Test Report No.:</i>		<i>Page 1 of 1</i>	
<b>Auftraggeber:</b> <i>Client:</i>	Gainta Industries Ltd. 1F., No. 30 , Lane 54 , Chung Cheng Road , Hsin Tien City , Taipei Hsien , Taiwan R.O.C.		
<b>Gegenstand der Prüfung:</b> <i>Test Item:</i>	Sealed enclosure		
<b>Bezeichnung:</b> <i>Identification:</i>	G1X/G2Y/G3Z series (see attachment 1 for detail)	<b>Serien-Nr.:</b> <i>Serial No.:</i>	Engineering sample
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	16313	<b>Eingangsdatum:</b> <i>Date of Receipt:</i>	15/03/2005
<b>Prüfart:</b> <i>Testing Location:</i>	TÜV Rheinland Taiwan Ltd., Taichung Lab. 10F, No. 219, Min Chuan Road, Taichung 403, Taiwan, R.O.C.		
<b>Prüfgrundlage:</b> <i>Test Specification:</i>	IEC 60529: 2001		
<b>Prüfresultat:</b> <i>Test Result:</i>	Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage. The a. m. test item passed.		
<b>Prüflaboratorium:</b> <i>Testing Laboratory:</i>	TÜV Rheinland Taiwan Ltd., Taichung Lab.		
<b>zusammengestellt/ compiled by:</b> Julia Lai		<b>kontrolliert/ reviewed by:</b> Jordan Wu	
<u>31.03.2005</u>	<u>Julia Lai</u>	<u>31.03.2005</u>	<u>Jordan Wu</u>
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>	Unterschrift <i>Signature</i>
<b>Sonstiges/ Other Aspects:</b>			
This test report consists of : 2 pages to IP65 test acc. to IEC 60529 5 pages of model list as attachment 1			
<b>Abkürzungen:</b>	ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar	<b>Abbreviations:</b>	ok / P = passed fail / F = failed n.a. / N = not applicable
<p><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></p> <p><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></p>			

<b>TEST REPORT</b> <b>IEC 60529</b> <b>Degrees of protection provided by enclosures</b> <b>( Partially for IP65 test )</b>	
Report reference No.....	L113061055
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 .....	G1X/G2Y/G3Z series (see attachment 1 for detail)
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)
<p>Clause numbers between brackets refer to clauses in IEC 60529.</p> <p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see Annex #)" refers to an annex appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>Difference among G1X/G2Y/G3Z series is that colors of enclosure, material of enclosure, shape and dimensions are different as listed in attachment 1 but the shape of G2 series and G3 series are identical. G101, G139, G201, G3039 are as the representative models for IP65 test.</p> <p>The IP65 tests are based on IEC 60529 only, no any other product standard is referred.</p>	

Clause	Requirement-Test	Result – Remark	Verdict
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	No deposit of talcum powder inside enclosure	P
14.2.5	Test for second characteristic numeral 5: water jet with 6.3mm nozzle		P
	Test conditions: - delivery rate: 12.5 l/min $\pm$ 5%; - test duration per square metre of enclosure surface area likely to be sprayed: 1 min; - minimum test duration : 3 min; - distance from nozzle to enclosure surface: between 2.5 m and 3 m.	No water entered the enclosure	P

**Model : G1X Series**

<b>Model No.</b>	<b>External Dimensions (mm)</b>
G101	50 x 45 x 30
G102	90 x 36 x 30
G103	98 x 64 x 34
G104	64 x 58 x 35
G106	115 x 65 x 30
G107	125 x 80 x 40
G108	125 x 80 x 57
G109	150 x 63 x 36.5
G111	115 x 65 x 55
G113	115 x 90 x 55
G115	148 x 108 x 75
G116	160 x 100 x 60
G117	160 x 100 x 81
G120	171 x 121 x 55
G124	222 x 146 x 55
G125	222 x 146 x 82
G137	120.5 x 120.5 x 101.5
G139	158.5 x 158.5 x 101.5

**Model : G2Y Series**

<b>Model No.</b>	<b>Color</b>	<b>Material</b>	<b>External Dimensions (mm)</b>
G201	Light Grey	Polycarbonate	64 x 58 x 35
G202	Light Grey	Polycarbonate	184 x 36 x 35
G203	Light Grey	Polycarbonate	115 x 65 x 40
G205	Light Grey	Polycarbonate	115 x 65 x 55
G212	Light Grey	Polycarbonate	115 x 90 x 55
G214	Light Grey	Polycarbonate	171 x 121 x 55
G218	Light Grey	Polycarbonate	222 x 146 x 55
G221	Light Grey	Polycarbonate	115 x 90 x 80
G223	Light Grey	Polycarbonate	171 x 121 x 80
G229	Light Grey	Polycarbonate	195 x 80 x 55
G232	Light Grey	Polycarbonate	222 x 146 x 75
G238	Light Grey	Polycarbonate	265 x 185 x 95
G250	Light Grey	Polycarbonate	52 x 50 x 35
G256	Light Grey	Polycarbonate	82 x 80 x 55
G258	Light Grey	Polycarbonate	160 x 80 x 55
G265	Light Grey	Polycarbonate	160 x 80 x 85
G269	Light Grey	Polycarbonate	200 x 120 x 75
G278	Light Grey	Polycarbonate	120 x 120 x 60
G279	Light Grey	Polycarbonate	120 x 120 x 90
G287	Light Grey	Polycarbonate	160 x 160 x 60
G288	Light Grey	Polycarbonate	160 x 160 x 90
G2018	Light Grey	Polycarbonate	240 x 160 x 90
G2025	Light Grey	Polycarbonate	240 x 160 x 120
G2029	Light Grey	Polycarbonate	300 x 230 x 86
G2038	Light Grey	Polycarbonate	300 x 230 x 111
G2058	Light Grey	Polycarbonate	360 x 200 x 150
G201C	Clear LID	Polycarbonate	64 x 58 x 35
G203C	Clear LID	Polycarbonate	115 x 65 x 40
G205C	Clear LID	Polycarbonate	115 x 65 x 55
G212C	Clear LID	Polycarbonate	115 x 90 x 55

G214C	Clear LID	Polycarbonate	171 x 121 x 55
G218C	Clear LID	Polycarbonate	222 x 146 x 55
G221C	Clear LID	Polycarbonate	115 x 90 x 80
G223C	Clear LID	Polycarbonate	171 x 121 x 80
G229C	Clear LID	Polycarbonate	195 x 80 x 55
G232C	Clear LID	Polycarbonate	222 x 146 x 75
G238C	Clear LID	Polycarbonate	265 x 185 x 95
G250C	Clear LID	Polycarbonate	52 x 50 x 35
G256C	Clear LID	Polycarbonate	82 x 80 x 55
G258C	Clear LID	Polycarbonate	160 x 80 x 55
G265C	Clear LID	Polycarbonate	160 x 80 x 85
G269C	Clear LID	Polycarbonate	200 x 120 x 75
G278C	Clear LID	Polycarbonate	120 x 120 x 60
G279C	Clear LID	Polycarbonate	120 x 120 x 90
G287C	Clear LID	Polycarbonate	160 x 160 x 60
G288C	Clear LID	Polycarbonate	160 x 160 x 90
G2018C	Clear LID	Polycarbonate	240 x 160 x 90
G2025C	Clear LID	Polycarbonate	240 x 160 x 120
G2029C	Clear LID	Polycarbonate	300 x 230 x 86
G2038C	Clear LID	Polycarbonate	300 x 230 x 111
G2058C	Clear LID	Polycarbonate	360 x 200 x 150
G2100	Light Grey	Polycarbonate	100 x 100 x 55
G2102	Light Grey	Polycarbonate	100 x 100 x 90
G2104	Light Grey	Polycarbonate	120 x 80 x 55
G2105	Light Grey	Polycarbonate	120 x 80 x 85
G2111	Light Grey	Polycarbonate	200 x 120 x 90
G2113	Light Grey	Polycarbonate	240 x 120 x 60
G2117	Light Grey	Polycarbonate	240 x 120 x 100
G2119	Light Grey	Polycarbonate	200 x 150 x 55
G2120	Light Grey	Polycarbonate	200 x 150 x 75
G2128	Light Grey	Polycarbonate	353X140X121.5
G2100C	Clear Lid	Polycarbonate	100 x 100 x 55
G2102C	Clear Lid	Polycarbonate	100 x 100 x 90
G2104C	Clear Lid	Polycarbonate	120 x 80 x 55

G2105C	Clear Lid	Polycarbonate	120 x 80 x 85
G2111C	Clear Lid	Polycarbonate	200 x 120 x 90
G2113C	Clear Lid	Polycarbonate	240 x 120 x 60
G2117C	Clear Lid	Polycarbonate	240 x 120 x 100
G2119C	Clear Lid	Polycarbonate	200 x 150 x 55
G2120C	Clear Lid	Polycarbonate	200 x 150 x 75
G2128C	Light Grey	Polycarbonate	353X140X121.5

**Model : G3Z Series**

Model No.	Color	Material	External Dimensions (mm)
G302	Dark Grey	ABS	64 x 58 x 35
G303	Dark Grey	ABS	184X36X35
G304	Dark Grey	ABS	115 x 65 x 40
G308	Dark Grey	ABS	115 x 65 x 55
G311	Dark Grey	ABS	115 x 90 x 55
G313	Dark Grey	ABS	171 x 121 x 55
G317	Dark Grey	ABS	222 x 146 x 55
G331	Dark Grey	ABS	115 x 90 x 80
G340	Dark Grey	ABS	171 x 121 x 80
G346	Dark Grey	ABS	195 x 80 x 55
G353	Dark Grey	ABS	222 x 146 x 75
G378	Dark Grey	ABS	265 x 185 x 95
G362	Dark Grey	ABS	52 x 50 x 35
G366	Dark Grey	ABS	82 x 80 x 55
G368	Dark Grey	ABS	160 x 80 x 55
G369	Dark Grey	ABS	160 x 80 x 85
G373	Dark Grey	ABS	200 x 120 x 75
G386	Dark Grey	ABS	120 x 120 x 60
G387	Dark Grey	ABS	120 x 120 x 90
G396	Dark Grey	ABS	160 x 160 x 60
G399	Dark Grey	ABS	160 x 160 x 90
G3008	Dark Grey	ABS	240 x 160 x 90

G3019	Dark Grey	ABS	240 x 160 x 120
G3028	Dark Grey	ABS	300 x 230 x 86
G3031	Dark Grey	ABS	300 x 230 x 111
G3039	Dark Grey	ABS	360 x 200 x 150
G3101	Dark Grey	ABS	100 x 100 x 55
G3103	Dark Grey	ABS	100 x 100 x 90
G3107	Dark Grey	ABS	120 x 80 x 55
G3109	Dark Grey	ABS	120 x 80 x 85
G3113	Dark Grey	ABS	200 x 120 x 90
G3118	Dark Grey	ABS	240 x 120 x 60
G3121	Dark Grey	ABS	240 x 120 x 100
G3122	Dark Grey	ABS	200 x 150 x 55
G3127	Dark Grey	ABS	200 x 150 x 75
G3130	Dark Grey	ABS	353X140X121.5

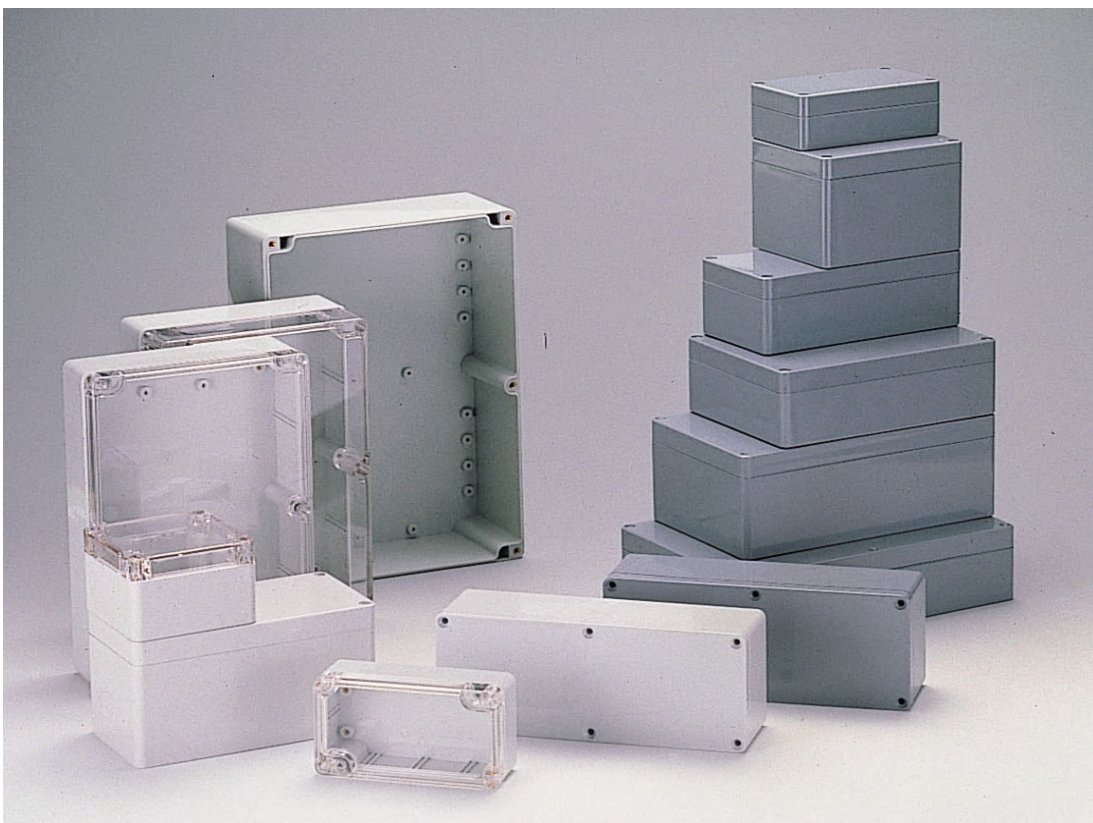


**Report Number:** L113061055

**Model:** G1X/G2Y/G3Z series (see attachment 1 for detail)



Picture 1 G1X series ( Die-cast aluminium enclosure)



Picture 2 G2Y/G3Z series (plastic enclosure)