Megaton Systems (Pty) Ltd ^T/_A MTEx Laboratories

Unit 1 Wierda Place 17 Hilda Avenue Centurion 0157







VAT/BTW No: 4830273027, Reg No: 2012/055110/07, T0749.

IP TEST REPORT			
Report reference number: MTEx 1326/21.0143			
Date Tested:	2021/03/29 – 2021/03/30		
Date Report was issued:	2021/03/31		
Validity:	2031/03/31 or Design Change		
Standards:	SANS 60529:2013		
	"Degree of protection provided by enclosure (IP Code)."		
IP rating obtained after testing:	IP 67		
Applicant's Company Name:	Digital Matter Embedded (South Africa)		
Applicant's reference:	PO-02130		
Device:	Yabby Housing		
Address:	NO.7 Pinetree Business Park		
	63 Brahman Crescent		
	Westfield		
	1610		

General remarks:

- The test results presented in this Test Report relate only to the item or product tested.
- "(see Attachment #)" refers to additional information appended to this document.
- "(see appended table)" refers to a table appended to this document.
- Throughout this document, a point "." is used as the decimal separator.
- This report/certificate shall not be reproduced except in full.

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Approved by + signature (ExCB):

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employment & labour

Department:
Employment and Labour
REPUBLIC OF SOUTH AFRICA
AIA Number: CL016

1. DESCRIPTION OF SAMPLE

The enclosure was manufactured from PA6/GF15 Nylon Glass Compound and had an approximate internal volume of 63.5ml. The enclosure had the following overall dimensions: 85mm x 62mm x 24mm (Assembled). The enclosure consisted of two main parts, held together by means of six Philips head self-tapping screws. A sealing element was fitted to one part of the enclosure on the inside of the fasteners.





2. TEST RESULTS AND SETUP:

SANS 60529: 2013 Ed.1.2				
CLAUSE	TEST	RESULT		
13.4	Dust test for first characteristic numerals 6 (Category 1)			
Step 1	Environmental conditions: Temp: 22.55°C, R-humidity: 55.11%, Pressure: 1021hPa			
Step 2	Dimensional evaluation: +/- 68ml internal volume			
Step 3	Testing and inspection results: Vacuum applied to sample: <2 kPa Flow observed: 0 m³.min⁻¹ Time tested: 8 Hours On completion of the test, the sample was opened and inspected for dust ingress: No dust ingress was observed.			
Photo's				

SANS 60529: 2013 Ed.1.2			
CLAUSE	TEST RESULT		
14.2.7	TEST FOR SECOND CHARACTERISTIC NUMERAL 7: TEMPORARY IMMERSION BETWEEN 0.15M AND 1M		
Step 1	Environmental conditions measured: Temp: 22.55°C, R-humidity: 54.94%, Pressure: 1022hPa		
Step 2	The enclosure was submerged in its service position as specified by manufacturer.		
Step 3	The lowest point of the enclosure with a height of less than 850mm was located 1000mm below the surface of the water.		
Step 4	Test duration: 30min.		
Step 5	Water and the test sample temperatures did not differ more than 5K.		

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	SANS 60529: 2013 Ed.1.2					
CLAUSE	TEST	RESULT				
Step 6	After testing inspection results: The enclosure was visually inspected after the test was completed, no ingress o observed.	f water was				
Photo's						

3. CONCLUSION

The samples complied to IP67 as per the requirements of IEC/SANS 60529.

4. ADDITIONAL NOTES AND RECOMMENDED "BATCH" VERIFICATION TESTING

- Visually inspect for: all the fasteners secured and sealing o-ring(s) present.
- Dust tank test for 2 hours (If Batch Tested) without vacuum applied or...
- IPX7 test (If Batch Tested).

End of Report.