

MTEx Laboratories

Centurion Unit 1 Wierda Place 17 Hilda Ave Hennopspark 0157 Cape Town Unit 3 Marcian Park Cincaut Cres. Saxenburg Park 7580

IP TEST REPORT			
Report reference number:	MTEx 1997/22.0542A		
Date Tested:	2022/11/08		
Date Report was issued:	2022/11/10		
Standards:	SANS 60529:2013		
	"Degree of protection provided by enclosure (IP Code)."		
IP rating obtained after testing:	IP 68		
Applicant's Company Name:	Digital Matter Embedded (South Africa)		
Applicant's reference:	COD		
Device	Hawk 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.

Reviewed by + Signature (ExTL):	D. Young	Bull
Approved by + Signature (ExCB): (MTEx Laboratories Technical Signatory)	H. de Wet	Dunt











1. DESCRIPTION OF SAMPLE

The enclosure was manufactured from PA6/GF15 Nylon Glass Compound. The enclosure had the following overall dimensions: 39.19mm x 182.63mm x 118.5mm (Assembled). The enclosure consisted of two main parts, held together by means of eight Philips head self-tapping screws. A sealing element was fitted to one part of the enclosure on the inside of the fasteners. A gland formed part of the moulded construction.



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: 18.6°C, R-humidity: 46.3%, Pressure: 868hPa				
Step 2	Dimensional evaluation: +/- 100ml 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.				

SANS 60529: 2013 Ed.1.2				
CLAUSE	TEST	RESULT		
14.2.8	TEST FOR SECOND CHARACTERISTIC NUMERAL 8 CONTINUOUS IMMERSION TO AGREEMENT	SUBJECT		
Step 1	Environmental conditions measured: Temp: 18.6°C, R-humidity: 46.3%, Pressure: 86	8hPa		
Step 2	Unless there is a relevant product standard, the test conditions are subject to agreem manufacturer and user, but they shall be more severe than those prescribed in 14.2 shall take account of the condition that the enclosure will be continuously immersed in Duration of test: 60 minutes Testing depth: 1.0 meter	2.7 and they		
Step 6	After testing inspection results: The enclosure was visually inspected after the test was completed; no ingress o observed.	f water was		

3. CONCLUSION

The samples complied to IP68 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.
- IPX8 test (If Batch Tested).

End of Report.