

## **MTEx Laboratories**

Centurion Unit 1 Wierda Place 17 Hilda Ave Hennopspark 0157

Cape Town Unit 3 Marcian Park **Cincaut Cres** Saxenburg Park 7580

TYPE ASSESSMENT AND TEST REPORT				
Report Reference number:	MTEX/1958/22.0486B			
Revision:	0			
Reason for Review:	N/A			
Date of issue:	2022-10-05			
Ex Testing Laboratory (ExTL):	Megaton Systems (Pty) Ltd T/A MTEx Laboratories.			
Ex Certification Body (ExCB):	Unit 1 Weirda Place, 17 Hilda AV, Hennopspark, Centurion,			
	South Africa, 0157.			
Manufacturer's name:	Digital Matter Embedded (South Africa)			
Address:	NO.7 Pinetree Business Park			
	63 Brahman Crescent			
	Westfield			
	1610			
Trademark:	N/A			
Standard associated with this ExTR:	IEC 62262: 2002-02 First edition			
	Degrees of protection provided by enclosures for electrical			
	equipment against external mechanical impacts (in code)			
	- <u></u>			
Test procedure(s):	All the ExTL's Test Procedures associated with the Clauses			
	above.			
Test Item description:				
Model/Type reference:	G70 Rugged enclosure			
IK Code:	_IK			
Electrical Ratings:	Empty enclosure tested			
Rated Ambient temp range:	20 to 40 °C			
Sample/Serial Number:	_N/A			
Additional Marking (e.g. IP):	N/A			
All testing fully performed by ExTL staff at ExTL address above:				
Yes.				

Reviewed by + signature (ExTL):	J. Venter	Allen
Approved by + signature (ExCB): (MTEx Laboratories Technical Signatory)	H. de Wet	ADunt
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employment & labour Department: Employment and Labour REPUBLIC OF SOUTH AFRICA

AIA Number: CL016

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## TYPE ASSESSMENT AND TEST REPORT

Testing not fully performed by ExTL staff at the above ExTL address:  $\ensuremath{\mathsf{N/A}}$ 

Possible test clause verdicts:

- test clause does not apply to the test item: ...... N / A

- test item does meet the requirement ...... Pass

- test item does NOT meet the requirement ......... Fail

## General remarks:

The test results presented in this Ex Test Report relate only to the item or product tested.

- "(see appended table)" refers to a table appended to this document.
- Throughout this document, a point "." is used as the decimal separator.
- Test results are listed in ANNEX 1 of this document.

The technical content of this ExTR package shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL.

Random samples of records at the ExTL and ExCB may be drawn for auditing purposes. Information in such records may be subject to sharing with external auditors. Sharing of information is done in accordance to the Quality Management System Requirements.

## General product information:

The enclosure was manufactured from PA6/GF15 Nylon Glass Compound. The enclosure had the following overall dimensions: 25mm x 65mm x 110mm (Assembled). The enclosure consisted of two main parts, held together by means of four 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.



	ANNEX 1					
SANS 62262: IK Code						
Clause	Requirement – Test	Result – Remark	Verdict			
	Scope Sample conditioning using the IK Code. After sample conditioning the sample integrity was tested by:					
1	IP68 Testing in report: MTEx-1958/22	2.0486				
	Visually inspected to assign an IK code of: IK08					
2	Normative references - Informative	)				
3	Definitions and abbreviations - Info	ormative				
4	Requirements		Informative			
5	General requirements for tests.					
5.1	.1 Atmospheric conditions were verified to be in the range: ▲ Temperature range: 15 °C to 35 °C, instrument: 15.9°C T#0023 Next calibration date: 2023/08/10. ▲ Air pressure: 868 kPa (860 mbar to 1 060 mbar).					
5.2	Enclosure under test	The enclosure was complete and clean.	Comply.			
5.3	Specifications to be given in the relevant product standard	Refer to Clause 6.	Informative			
6	Test to verify the protection agains	st mechanical impacts				
6.1	The test specified in this standard is a typ	be test.	Informative			
6.2	The devices to be used for this test are d	escribed in clause 7.	Informative			
6.3 and 6.4	One sample was mounted on the concrete floor and impacted five times on all sides until visual damage was observed that will impair the ingress protection, the maximum impact observed that caused this damage was 1kg from a height of 0.5m with an impact energy of 5J.					
6.5 7	Test to be performed to verify the saf o IP68 Testing (refer to MTEx/1 Test apparatus The sample was mounted on the con	ety and reliability of the equipment: 1958/22.0486). crete floor and the impact was done using the	Comply			
	hammer as per SANS 60079-0, and test procedure MTExTP004. Refer to Clause 6 for more details.					