

## ASSESSMENT AND TEST REPORT

Report Number: MTEEx 1086/20.0270

Digital Matter Embedded  
No.7 Pinetree Business Park  
63 Brahmaan Crescent  
Westfield  
Edenvale  
1610

Date: 11/09/2020  
Client Reference: PO-01773  
Revision: 0

### 1. STANDARD(S) USED

Testing was conducted in accordance with the following standards:

IEC 62262: 2002-02 First edition	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
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### 2. APPARATUS PROPERTIES

Manufacturer : Digital Matter Embedded  
Type of product : Non-metallic Enclosure  
Model : Oyster Rugged



The enclosure was manufactured from PA 6-Copolymer, 15% glass fibers, injection moulding, heat-aging stabilized. The enclosure had the following overall dimensions: 108mm x 86mm x 31mm (Assembled) The enclosure consisted of two parts, bolted together by means of six Philips head self-tapping screws.



### 3. Test results

#### 3.1 Clause 9.7- Degree of protection against external mechanical impacts (IK code).

##### Test conditions

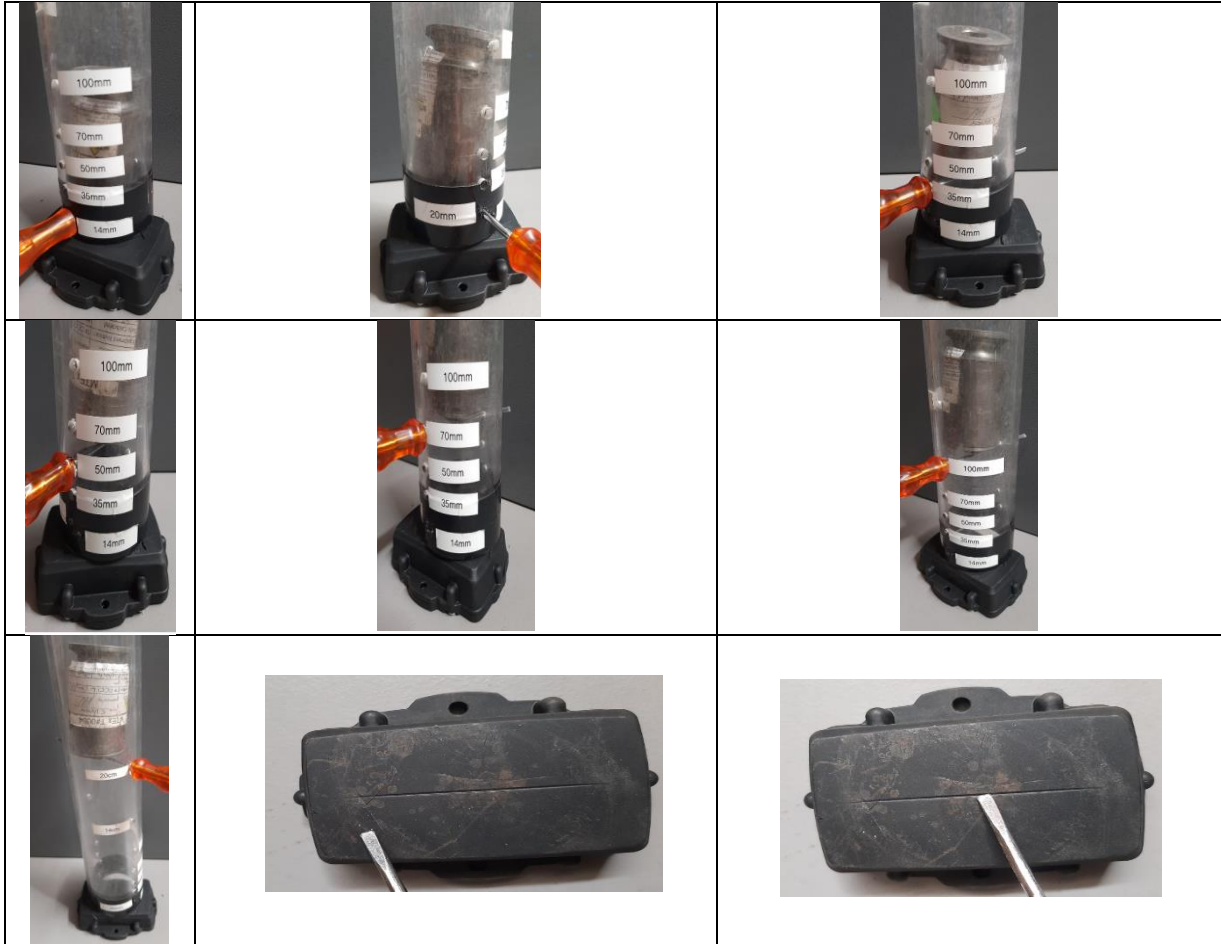
Temperature : 20.40 °C  
Air pressure : 1016 hPa

Each exposed surface of the enclosure was subjected to five impact tests (If area was big enough) starting at an impact energy of 0.14J.

Reviewed by + signature (ExTL):	D. du Plessis	
Approved by + signature (ExCB): (MTEEx Laboratories Technical Signatory)	H. de Wet	

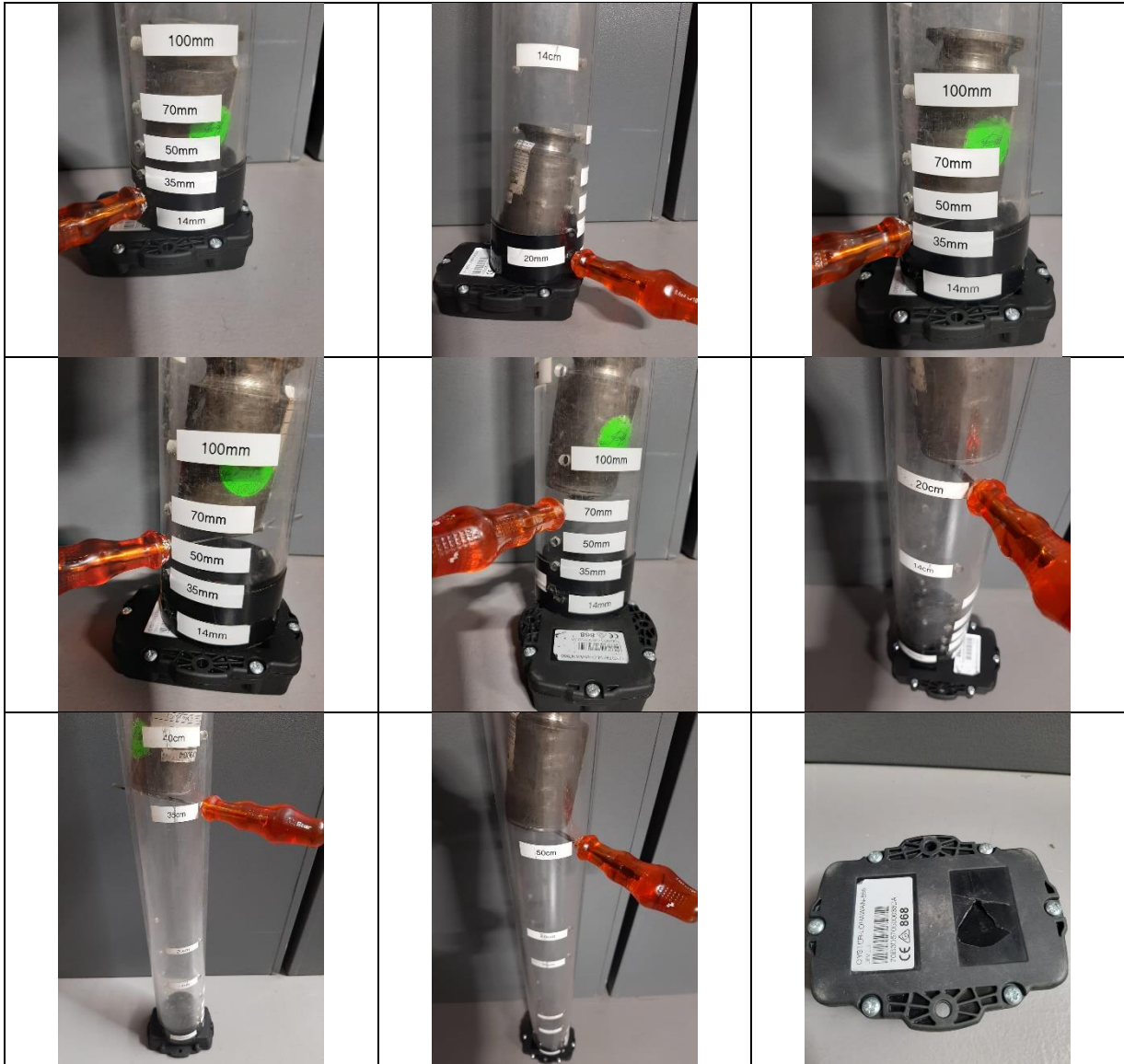
**IK07 (Enclosure front part)**

The front part of the enclosure resisted an impact of 0.14J, 0.2J, 0.35J, 0.5J, 0.7J, 1J and 2J  
(Five tests at each impact energy)



**IK07 (Enclosure back part)**

The back part of the enclosure resisted an impact of 0.14J, 0.2J, 0.35J, 0.5J, 0.7J, 1J and 2J  
(Five tests at each impact energy)



**Conclusion:**

The front part of the enclosure had an IK07 rating assigned to it.  
The back part of the enclosure had an IK07 rating assigned to it.

**MTEx Laboratories**

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**End of Report**