

1 EU-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU**

3 **EU-Type Examination Certificate No:** FM13ATEX0088X

4 **Equipment or protective system:** Series ME5060 Flameproof Enclosures
(Type Reference and Name)

5 **Name of Applicant:** Nautitech Mining Systems Pty Ltd

6 **Address of Applicant:** Unit 3 / 9 Packard Avenue
Castle Hill, NSW, 2154
Australia

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3050648 dated 6th November 2013

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN-IEC 60079-0:2018 and EN-60079-1:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use specified in the schedule to this certificate.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



I M2 Ex db I Mb

II 2 G Ex db IIC T5 Gb

Ta = -20 °C to +60 °C

Digitally signed
by Richard
Zammitt
Foxit
PhantomPDF
Version: 10.0.1

Richard Zammitt
Certification Manager, FM Approvals Europe Ltd.

Issue date: 20th May 2021

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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13 Description of Equipment or Protective System:

The range of enclosures is manufactured from stainless steel with no welded parts. Optional glass lenses can be cemented in different configurations in the front cover and secured with a suitable threaded stainless steel retaining ring. The cover is secured with six recessed stainless steel M6 x 1.25 x 16mm socket head cap screw.

The enclosure has the following threaded entry configurations:

- Up to four M20 x 1.5 threaded entries equally spaced on the circumference of the cylindrical body of the enclosure.
- Up to two M20 x 1.5 threaded entries on the bottom base plate of the enclosure.
- Up to two M20 x 1.5 threaded entries on the cover of the enclosure, applicable to the solid cover only.

A single type CR1220 Manganese Dioxide / Lithium battery (Type C as per IEC60086-1) is approved with its associated circuit for use inside the enclosure.

Electrical ratings: 500 V, (50 V with battery) / 10.5 W

The specific assemblies are identified as follows:

ME5060-2-99-a. Flameproof Enclosure.

a = 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 130, 131, 132, or 133.

14 Specific Conditions of Use:

1. Only a suitably certified gland or blanking element shall be used in the threaded entry(s). All unused entries shall be blanked.
2. The dowel pins shall be in good condition and utilized on each enclosure assembly.
3. The total power dissipation is limited to 10.5W. If the power dissipation is above 4.7W, a cable rated at least 105°C and cable glands rated at least 82°C shall be used.
4. When used with the LED unit, a cable rated at least 92°C and cable glands rated at least 78°C shall be used.
5. Cover fasteners shall only be replaced with M6 X 16, A2-70.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

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17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 th November 2013	Original Issue.
20 th May 2021	<u>Supplement 01:</u> Report Reference PR460260, dated 18 th May 2021. Description of the Change: Update to latest harmonized standards and documentation update. Certificate reissued by FM Approvals Europe Ltd (NB 2809) following file transfer from FM Approvals Ltd (UK).

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Blueprint Report

Nautitech Mining Systems Pty Ltd (146294)

Class No 3615

Original Project I.D. 3050648

Certificate I.D. FM13ATEX0088X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
DO5060/01	01	FLP ENCLOSURE ASSEMBLY	3050648
ME5060-0-25-039-A	3	LABEL - ATEX - 5060 FLP ENCLOSURE	PR460260
ME5060-2-12-017-A	2	BATTERY CIRCUIT FOR FLP ENCLOSURES	3050648
ME5060-2-99-114-A	D	ASSY - FLP ENCLOSURE	3050648
PR5060100A	03	PRODUCT MANUAL - 5060 FLAMEPROOF ENCLOSURE	PR460260