



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx MSC 15.0012U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2019-06-12) Issue 0 (2016-01-14)
Date of Issue:	2023-11-16		
Applicant:	Nautitech Mining Systems Pty Ltd Unit 3, 9 Packard Avenue Castle Hill, NSW, 2154 Australia		
Ex Component:	FLP Enclosure 5230 Series		
<i>This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).</i>			
Type of Protection:	Flameproof "d"		
Marking:	Ex d I Mb Tamb = See Schedule of Limitations		

Approved for issue on behalf of the IECEx
Certification Body:

Ujen Singh

Position:

Quality and Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

16 November 2023

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry, NSW 2753
Australia





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Date of issue: 2023-11-16

Issue No: 2

Manufacturer: **Nautitech Mining Systems Pty Ltd**
Unit 3, 9 Packard Avenue
Castle Hill, NSW, 2154
Australia

Manufacturing locations: **Nautitech Mining Systems Pty Ltd**
Unit 3, 9 Packard Avenue
Castle Hill, NSW, 2154
Australia

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2007](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KDB/ExTR15.0005/00](#)

Quality Assessment Report:

[AU/MSC/QAR21.0001/01](#)



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Ex Component(s) covered by this certificate is described below:

The Flameproof Enclosure 5230 Series are robust metallic enclosures designed to house electrical equipment within a hazardous area. The enclosures come with pre-drilled cable entries holes located in the side walls of the enclosure, internal swing mounting panels for mounting of the internal equipment.

The enclosure is fitted with a lifting eye and a hinged door. The door may also be fitted with optional locking assemblies and either round or rectangular sight glasses

SCHEDULE OF LIMITATIONS:

The enclosure comes in three variants namely;

1. Models ME5230-2-99-060 to ME5230-2-99-079 which is not fitted with a window and can be used in ambient temperatures -20°C to $+60^{\circ}\text{C}$
2. Models ME5230-2-99-080 to ME5230-2-99-089 which is fitted with a round window NCO-F-75 (ATEX Certificate KDB08ATEX236U) and can be used in ambient temperatures 0°C to $+40^{\circ}\text{C}$
3. Models ME5230-2-99-090 to ME5230-2-99-099 which is fitted with a rectangular window NCO-P-7 (ATEX Certificate KDB13ATEX0121U) and can be used in ambient temperatures -20°C to $+60^{\circ}\text{C}$

The maximum operating temperature of either window must not exceed 90°C .

The following limitations apply;

1. The maximum number of apertures, their maximum sizes and their positions are given in drawing number RC-14/BOHAMET-Ex-100 (sheets 1 & 2) ME5230-2-99-059A (sheets 1 to 3);
2. Oil-filled circuit-breakers and contactors shall not be used;
3. The content of the Ex component enclosure equipment may be placed in any arrangement, provided that an area of at least 20 % of each cross-sectional area remains free to permit an unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm;
4. Rotary machines and other devices generating vibrations should not be used;
5. Primary and secondary cells or batteries can only be used in compliance with the requirements of Annex E to IEC 60079-1;
6. All input devices shall be mounted in accordance with IEC 60079-1.
7. At least 12.9 mechanical class screws shall be used.

Notes

1. The glass windows have ATEX type examination certificates. The certificates and associated tests reports have been reviewed and found to be satisfactory for inclusion in this IECEx certificate on the bases of ExTAG decision sheet ExTAG DS 2014/001.
2. The windows have been certified against the following versions of the Standards
 - i. NCO-P-xx (ATEX Certificate KDB13ATEX0121U) EN 60079-0:2013 & EN 60079-1:2010.
 - ii. NCO-F-xx (ATEX Certificate KDB08ATEX236U) EN 60079-0:2006, EN 60079-1:2004+AC:2006 & EN 60079-1:2008.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variations permitted by Issue 2:

The auditing body was changed to TestSafe Australia.

Annex:

[IECEx MSC 15.0012U-2_Annexe.pdf](#)



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX MSC 15.0012U	Issue No.:	2
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Drawing list pertaining to Issue 2 of this Certificate:

Document / Drawing No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
ME5230-2-99-059-A	3	MODEL 5230 Exd FLP ENCLOSURE ASSEMBLIES	1	2016/01/12
ME5230-2-90-260-A	1	WINDOW ASSEMBLY-ROUND- MODEL 5230	1	2016/01/13
ME5230-2-90-261-A	1	WINDOW ASSEMBLY- RECTANGULAR- MODEL 5230	1	2016/01/13

Note: An “*” is added before the title of documents that are new or revised.

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