



Mining And Surface Certification (Pty) Ltd 2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE	MASC MS/21-9039				0	24	
Issue Date ** Based on Certificate No	14 December 2021		Expiry Date		14 December 2024	1	
Requested by	IECEx ICS 18.0008X Issue / Variations / Amendment 1 Nautitech Mining Systems Pty Ltd 1						
Requested by	Unit 3, 9 Packard Avenue, Castle Hill, NSW 2154, Australia						
Manufacturer	Nautitech Mining Systems Pty Ltd						
	Unit 3, 9 Packard Avenue, Castle Hill, NSW 2154, Australia						
Description	 The Quad Exd Enclosure is a rectangular enclosure with approximate dimensions of 290 mm x 210 mm x 112.2 mm. On the two short sides of the enclosure, six M20/M25 x 1.5 (6H) gland entries are provided in total for the fitment of certified glands/blanking elements. The enclosure comprises a base and a cover. The cover is secured with eight M8 x 1.25 x 20mm hexagon socket cap screws of grade 12.9 in 8.6 mm deep countersunk holes. A toughened glass window is located in a recess in the cover and kept in place by a keeper plate. The keeper plate is secured with twelve M8 x 1.25 x 16mm hexagon countersunk screws of 						
	grade A2-70. A 2 mm o-ring between the glass window and the cover, as well as between the cover and the base ensures an Ingress Protection rating of IP65. The equipment is internally fitted with electronic control equipment and display mounted on a plate.						
	The equipment is r	ated 24Vdc w	ith a 24W	interna	I power limitation.		
Equipment	Solenoids / Coils		Туре	Туре	A (CT500131), Type B (
MARKING:	Type:	As above		Туре	C (CT500166) and Type	9 D (CT500167)	
Original marking as per certificate ** remains	Ex Marking:	Type: As above Ex Marking: Ex db Mb Ex db B T6 Gb					
applicable.	IA Number:			(To be	additionally marked on e	auipment)	
IA number must be added.	Warnings:						
Quality Assurance report (Q/							
(QAN) Expiry date:	,						
The equipment as described al Standards: SANS (IEC) 60079-0: 2011 SANS (IEC) 60079-1: 2011 Note: This certificate covers or is up to the manufacturer to en Special conditions of safe us Refer to Annex A below fo	9 (2017) Explosive at 5 (2014) Explosive at hly the listed standard isure that the product se "X":	mospheres - F mospheres - F Is and does no	Part 0: Eq Part 1: Eq ot imply c	uipmen uipmen omplian	t - General requirements t protection by flameproo ce to any other standard,	f enclosures "d"	
 Conditions of manufacture: Refer to Annex A below for 	r moro dotoilo						
Refer to Annex A below fo					Julie		
Terine O	rsmond				C Regardt Zeeli	ie	
PROJECT I According to the relevant requirements	MANAGER This certificate cover	S Act, production u	inits of explo	sion prote	cted equipment are required to co		
						Page 1 of 2	
	Any cond	oplicable, which s SANS 10086 r itions mentioned elevant requirementions enforced b	shall be adl equirement in the abovents of the py the chief	nered to: s; ve certific VHS Act inspecto	cate; ; r of mines, principal		
"		rtificate may only					

The certificate is not transferable and remains the property of the issuing body.

Mining And Surface Certification (Pty) Ltd Unit 5 Lelyta Park, 45 Jurg Avenue, Hennopspark, Ext 87 Centurion 0157

IA CERTIFICATE: MASC MS/21-9039X Equipment: QUAD EXD ENCLOSURE Type 5650 (Expiry date: 14 December 2024)

ANNEX A

Thi	s document is based on and must be read in conjunction with certificate IECEx ICS 18.0008X			
Description (According to Base Certificate) **				
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."				
Standard compliance	See Base Certificate **			
Special conditions of safe use ("X")	 Only suitably certified glands or blanking elements may be used in all apertures. Use only fasteners with grade (or higher) as per equipment description above. Some flamepaths are more restrictive than the minimum requirements in the standard. Information w.r.t. the flamepaths must be obtained from the manufacturer for consideration of maintenance / repair. 			
Conditions of manufacture	• A routine overpressure test shall be conducted at 1220 kPa (min) on all production units, according to the requirements of IEC 60079-1.			
Conditions of Certification	 This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. As per ARP 0108 a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date). The apparatus must be additionally marked with the MASC marking details above. This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. The Ex quality assurance notification/report for the equipment must remain valid. 			
Conclusion:	 From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. The routine tests for production units according to the Base Certificate ** must be complied with (if applicable). 			

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.

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