



## Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE RELEVANT REGULATIONS OF THE MINERALS ACT (INCORPORATING THE MINE HEALTH AND SAFETY ACT) AND THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.

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IA CERTIFICATE	MASC M/20-9		Issue	0		
Issue Date	14 October 20		Expiry Date	14 October 2023		
** Based on Certificate No		ANZEx 10.4091X Issue / Variations / Amendment 1				
Requested by		Nautitech Mining Systems Pty Ltd				
Manufacturer	Unit 3, 9 Packard Avenue, Castle Hill NSW 2154, Australia					
Manufacturer	Irer Nautitech Mining Systems Pty Ltd Unit 3, 9 Packard Avenue, Castle Hill NSW 2154, Australia					
Description		The Flameproof enclosure is manufactured from steel and consists of a main body with a bolt on cover				
Description	forming a flanged flamepath. There is a series of threaded entries in the enclosure up to M40 x 1.5mm pitch. There is also an optional polycarbonate window and operator(s), either rotary or push button which may be fitted to the enclosure cover. An optional flametrap(s) (ANZEx 06.4082U) may be fitted to the threaded entries of the enclosure. The enclosure is designed to house low power electrical/electronic equipment or an electrical contactor.					
	Electrical Ratir 350 Volts / 350	ngs/Parameters				
Equipmont		toring Enclosure	Type	Control / Monitoria		
Equipment MARKING:		Control / Monitorir		Control / Monitorir	ng Enclosure	
Original marking as per	Type: Ex Marking:	Ex d I IP55	ig Enclosure			
certificate * remains	IA Number:	MASC M/20-9024X (To be additionally marked on equipment)				
applicable.	Warnings:					
IA number must be	warnings.	gs. See base Certificate (original marking must be applied)				
added.						
Quality Assurance report ( Notification (QAN) Expiry d		AU/ITA/QAR08.00	004/12			
IP55 to maintain the IP55	012 (2011) Equip 009 (2007) Equip <b>use "X":</b> use that suitably of 55 rating of the er	oment - General request of the second s	uirements flameproof enclosu	ures "d"	g the SANS/IEC Standards:	
Conditions of manufacture:			· .02			
<ul> <li>It is a condition of manufacture that the service temp of any non-metallic materials must be considered, e.g. window, cementing, cable branching points (80°C) and cable entry points (70°C).</li> </ul>						
<ul> <li>It is a condition of manufacture that the operating temperatures for the non-metallic materials (including the window, cementing</li> </ul>						
and cable / gland entries						
<ul> <li>It is a condition of manuf</li> </ul>					use 4.3 of AS2380.2 at a	
	if it is to be used	as an enclosure for	pressure switches	s, then at 1.5 times the	e expected line pressure.	
				~		
WEMON.				Aldie		
	e Orsmond			C Regardt Zee		
TECHNIC	CAL OFFICER			TECHNICAL SPE	CIALIST	
According to the relevant requirem	nents of the MHS Act a	tificate covers all units sold and the OHS Act, production approved mark scheme or	on units of explosion prot	tected equipment are require	ed to comply with third party quality	
					Page <b>1</b> of <b>2</b>	

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to: SANS 10086 requirements; Any conditions mentioned in the above report Any restrictions and conditions enforced by the chief inspector of mines or chief inspector of factories Any relevant requirements of the MHS Act.

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

## IA CERTIFICATE: MASC M/20-9024X Equipment: Control / Monitoring Enclosure

## ANNEX A

Т	his document is based on and must be read in conjunction with certificate ANZEx 10.4091X			
Description (According to Base Certificate **)           "Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."				
Special conditions of safe use ("X")	As above			
Conditions of manufacture	As above			
Conditions of Certification	<ul> <li>This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate.</li> <li>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).</li> <li>The apparatus must be additionally marked with the MASC marking details above.</li> <li>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.</li> <li>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.</li> <li>The certification on which this IA Certificate is based must remain valid.</li> <li>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.</li> <li>The Ex quality assurance notification/report for the equipment must remain valid.</li> </ul>			
Conclusion:	<ul> <li>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 **.</li> <li>The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).</li> </ul>			

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 errorneous 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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