



## 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

	MASC MS/23-902	20X	Issue		0		
Issue Date	21 November 2023		Expiry D	ate	21 November 2026		
** Based on Certificate No	IECEX ITA 12.0007X				ns / Amendment	2	
Requested by	Nautitech Mining Systems Pty Ltd						
	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		elded 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 stainl						
	steel M6 x 1.25 x 16mm socket head cap screw.						
	Refer to below Annex below for full description						
Equipment	Camera or Display / Instrument Type ME5060 (refer to description)				n)		
	housing				· ·	,	
MARKING:	Type:	As above					
Original marking as per	Ex Marking:	g: Ex d I/IIC T5 Mb Gb					
certificate ** remains	- //	$-20^{\circ}C \le T_{amb} \le 60^{\circ}C$					
applicable.	IA Number:	MASC MS/23-9020X (To be additionally marked on equipment)					
IA number must be added.	Warnings:	See Base Certificate ** (original marking must be applied)					
Quality Assurance report (Q	Warnings:         See Base Certificate         (original marking must be applied)           QAR) / Notification         AU/MSC/QAR21.0001/01					plied)	
(QAN) Expiry date:		AU/MISC/Q/	ANZ 1.0001	/01			
Compliance:							
The equipment as described a	hove has been alloc:	ated the rating	Explosion	Protecte	ed 'as above' utilizing t	the SANS/IEC	
Standards:		ated the rating		1 101001	<u>da do doove</u> duitzing i		
<ul> <li>SANS (IEC) 60079-0: 201</li> </ul>	2 (2011) Explosive a	itmospheres - F	Part 0: Equ	inment	- General requirement	is	
<ul> <li>SANS (IEC) 60079-1: 200</li> </ul>							
Note: This certificate covers of							
is up to the manufacturer to er							
Special conditions of safe us	e "X"		in relevant	otandan			
<ul> <li>Refer to Annex A below for</li> </ul>							
Conditions of manufacture:	Thore details.						
<ul> <li>Refer to Annex A below for</li> </ul>	r more details						
	i more details.						
Terine Orsmond					Regardt Zeelie		
PROJECT MANAGER				<u> </u>	TECHNICAL SPECIA	LIST	
	-	ers all units sold as	long as the Q/				
According to the relevant requirements	of the MHS Act and the OF	HS Act, production u	inits of explosi	on protect	ed equipment are required to	comply with third party quality	
	assurance (an approved r	mark scheme or bate	ch testing by a	in accredit	ed test laboratory).		
						Dana 4 of 0	
						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 certificate; Any relevant requirements of the MHS Act; Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

This certificate may only be reproduced in full 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/23-9020X Equipment: Camera or Display / Instrument housing (Expiry date: 21 November 2026)

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## ANNEX A

Th	nis document is based on and must be read in conjunction with certificate IECEx ITA 12.0007X This certificate was originally approved under MASC MS/14-0066X
	Description (According to Base Certificate) **
"Refer to description	in Base Certificate ** (and any applicable schedules/issues/variations)."
Description	<ul> <li>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</li> <li>The range of enclosures consists of a single body and a range of covers for different applications:</li> <li>Camera enclosure cover (ME5060-0-18-002) Small Germanium glass-IR lens with external retaining ring.</li> <li>Small LCD display cover (ME5060-0-18-009) Large toughened glass lens with internal retaining ring.</li> <li>Large LCD display cover or LED light cover (ME5060-0-18-008) Large toughened glass lens with external retaining ring.</li> <li>Junction box cover (ME5060-0-18-010) Full metallic stainless steel cover with up to two M20 x 1.5 threaded entries.</li> <li>The enclosure has the following treaded entry configurations</li> <li>Up to four M20 x 1.5 threaded entries equally spaced on the circumference of the cylindrical body of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the bottom base plate of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Up to two M20 x 1.5 threaded entries on the cover of the enclosure.</li> <li>Wo two M20 x 1.5 threaded entries on the cover of the enclosure.</li></ul>
Standard	considered for the installation rules. See Base Certificate **
compliance	
Special conditions	• Equipment will have a maximum rating of 10W and 3A. Any equipment rated at 7.3W or greater is to have
of safe use ("X") Conditions of	cable and gland rated at 90°C or better.
manufacture	<ul> <li>It is a condition that instructions complying with clause 30 of IEC 60079-0 and a copy of the certificate must be provided with each enclosure.</li> </ul>
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/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.

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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 comples with the documentation and standard(s).

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> Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07 Directors: Roelof Viljoen & Francoius du Toit Unit #5, Lelyta Park, 45 Jurg Avenue, Hennopspark Ext 87, Centurion, 0157 P.O. Box 14344, Clubview, 0014 Tel: 012 653 2959 ◊ Fax: 086 605 8568 e-mail: info@masc-ex.co.za