



# Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

<b>IA CERTIFICATE</b>	MASC M/20-8029X	<b>Issue</b>	0
<b>Issue Date</b>	21 February 2020	<b>Expiry Date</b>	21 February 2030
<b>Applicant</b>	Win 3 SA (Pty) Ltd, 14 De Hoop Road, Sunward Park, Boksburg, 1459		
<b>Manufacturer</b>	Win 3 ZheJiang HuaCai Optic-Technology Co., Ltd.		
<b>Description</b>	The Heat Stress Monitor is a temperature/RH warning device for heat stress and WB management. The instrument calculates dew point and wet bulb temperature. The device includes colour coded alarm indicators with each colour representing the caution levels as they change. The unit is powered by a non-rechargeable coin-cell battery. The device includes a pocket clip and a rugged design		
<b>Equipment</b>	Heat Stress Monitor		
<b>Photo</b>			
<b>MARKING:</b>	<b>Applicant / Manufacturer Type</b>	Win 3 SA (Pty) Ltd Heat Stress Monitor	
	<b>Ex Marking</b>	Ex ia I Ma	
	<b>IA Number</b>	MASC M/20-8029X	
	<b>Serial Number</b>	See "Annex A" below	
	<b>Safety Parameters</b>	See "Annex A" below	
<b>Compliance:</b>			
The equipment as described above and in MASC report <b>20-8029</b> has been allocated the rating <u>Explosion Protected Ex ia I Ma</u> utilizing the SANS/IEC Standards:			
<ul style="list-style-type: none"> <li>SANS (IEC) 60079-0:2019 General requirements</li> <li>SANS (IEC) 60079-11:2012 Equipment protected by intrinsic safety "i"</li> <li>ARP 0108:2014 Regulatory requirements for explosion protected apparatus</li> </ul>			
<b>Special conditions of safe use X:</b>			
<ul style="list-style-type: none"> <li>See "Annex A" below</li> </ul>			
<b>Conditions of manufacture:</b>			
<ul style="list-style-type: none"> <li>See "Annex A" below</li> </ul>			
 <b>C Welthagen</b> <b>TECHNICAL OFFICER</b>		 <b>D.P Visser</b> <b>TECHNICAL SPECIALIST</b>	

**This certificate only covers the sample submitted and does not cover production units.**  
According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).



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 and code of practice enforced in terms of regulations 21.17.2 of the minerals 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.  
This certificate is not transferable and remains the property of the issuing body  
Mining And Surface Certification (Pty) Ltd  
Unit 5 Lelyta Park, 45 Jurg Ave. Hennospark Ext 87  
Centurion, 0157



T0444

# IA CERTIFICATE: MASC M/20-8029X

## Heat Stress Monitor

### ANNEX A

Description	Enclosure	Populated	Unpopulated
		General	The Heat Stress Monitor is a temperature/RH warning device for heat stress and WB management. The instrument calculates dew point and wet bulb temperature. The device includes colour coded alarm indicators with each colour representing the caution levels as they change. The unit is powered by a non-rechargeable coin-cell battery. The device includes a pocket clip and a rugged design
<b>Standard compliance</b>	See "certificate" above		
<b>Warnings</b>	None		
<b>Conditions of Certification</b>			
<b>Special Conditions of safe use (X)</b>	<ul style="list-style-type: none"> <li>• The battery may not be charged / replaced in the hazardous area.</li> <li>• A static hazard may exist. Wipe only with a damp cloth.</li> </ul>		
<b>Conditions of manufacture</b>	<ul style="list-style-type: none"> <li>• Fuses must be encapsulated to 1mm to free air.</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 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