





Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

THIS DOCUMENT IS ISSUED 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 Report No	22-8452	Issue Date	7 September 2022
IA CERTIFICATE	MASC M/21-8382X	*) Batch Report must be read in conjunction with IA Certificate	
Requested by	Vincent Industrial Supplies 48 Industria Crescent, Extension 25, Witbank, South Africa		
Manufacturer	Vincent Industrial Supplies 48 Industria Crescent, Extension 25, Witbank, South Africa		
Description	The unit is a battery-operated handheld device. The enclosure houses PCBs, a memory card, a sim card and a battery. The front part of the unit comprises a touch screen, front camera and speakers. The unit is powered by a 3.8V/6000mAh Li-Io battery pack. The unit has an IP68 rating that is maintained by enclosure design.		
Equipment	Android I.S Tablet	Type	V810
Gas Group	Group I	Ex Marking	Ex ia I Ma
Subject: The verification and batch testing of equipment for compliance with the original IA Certificate according to: <ul style="list-style-type: none"> SANS 96: 2006 "Batch sampling and acceptance criteria for explosion-protected apparatus (EPA)" <i>Note: This document covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies with all relevant standards for the application.</i>			
Batch Size:	50	Batch Serial No:	2133 - 2182
Sample Size:	7	Sample Serial No:	2177, 2135, 2147, 2154, 2157, 2161 and 2170
Identification:	All units must be marked according to the original type approval.		
Assessment Result:	The selected samples were inspected and compared to the original type of approval documentation kept on record by MASC (ref no 21-8382). The samples COMPLIED with the evaluated criteria.		
Special conditions of safe use "X": <ul style="list-style-type: none"> Refer to IA certificate 			
Conditions of manufacture: <ul style="list-style-type: none"> Refer to IA certificate 			
Validity of this report:	This report only covers the serial numbers of the equipment listed in this report. Other identical units will only be covered by additional testing/inspection of those serial numbers. Any modification to the equipment, exceeding its ratings, or using it in another atmosphere as described above, will invalidate this report.		
 C. Welthagen TECHNICAL SPECIALIST		 S. Jordaan TECHNICAL OFFICER	
<small>This document will not be supported by MASC for certification purposes outside the borders of South Africa. 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).</small>			

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



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).



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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

IA CERTIFICATE	MASC M/21-8382X	Issue	0
Issue Date	27 July 2021	Expiry Date	27 July 2031
Applicant	Vincent Industrial Supplies, 48 Industria Crescent, Extension 25, Witbank, South Africa		
Manufacturer	Vincent Industrial Supplies, 48 Industria Crescent, Extension 25, Witbank, South Africa		
Description (See "Annex A" below)			
Equipment	Android I.S Tablet	Type	V810
Photo			
MARKING:	Applicant / Manufacturer	Vincent Industrial Supplies	
	Type	I.S Android Tablet (V810)	
	Ex Marking	Ex ia I Ma	
	IA Number	MASC M/21-8382X	
	Serial Number	See "Annex A" below	
	Safety Parameters	See "Annex A" below	
Compliance:			
The equipment as described above and in MASC report 21-8382 has been allocated the rating <u>Explosion Protected Ex ia I Ma</u> utilizing the SANS/IEC Standards:			
<ul style="list-style-type: none"> SANS (IEC) 60079-0:2018 General requirements SANS (IEC) 60079-11:2012 Equipment protected by intrinsic safety "i" SANS (IEC) 60079-28:2016 Protection of equipment and transmission systems using optical radiation. ARP 0108:2014 Regulatory requirements for explosion protected apparatus 			
Special conditions of safe use X:			
<ul style="list-style-type: none"> See "Annex A" below 			
Conditions of manufacture:			
<ul style="list-style-type: none"> See "Annex A" below 			
 C Welthagen TECHNICAL SPECIALIST		 D.P Visser TECHNICAL SPECIALIST	

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).

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



IA CERTIFICATE: MASC M/21-8382X I.S Android Tablet (V810)

ANNEX A

Description	Enclosure	Populated	Unpopulated
	General	The unit is a battery operated handheld device. The enclosure houses PCB's, a memory card, sim card and a battery. The front part of the unit comprises of a touch screen, front camera and speakers. The unit is powered from a 3.8V/6000mAh Li-Io battery pack. The unit has an IP68 rating that is maintained by enclosure design.	
IP Rating	IP68		
Safety Parameters	None		
Standard compliance	See "certificate" above		
Warnings	Do not charge / replace battery in hazardous area.		
Conditions of Certification			
Special Conditions of safe use (X)	<ul style="list-style-type: none"> • No additional accessories may be plugged into the unit when used in the hazardous area. • The unit may only be charged in the safe area. 		
Conditions of manufacture	<ul style="list-style-type: none"> • Three 0.1Ω, 2W resistors and a 2A (437/466 Series) fuse must be incorporated in-line with the battery. • The unit must be fully encapsulated with a suitably rated compound that can withstand the excess power. (8.63W) • The GSM / RF power must be limited to 500mW when used in a Group I area • The light metal alloy strips on the unit must be removed or the material composition must be confirmed to be an allowable combination as per SANS 60079-0 		

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