





Test report no.: 14201

Plug and key - Temperature tests





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Company registration: 1968/008611/30 VAT registration: 439 016 0077

Mr. Shayne Jones YeboTech (Pty) Ltd

Tokai on main Business Park

TOKAI

TOKAI

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Telephone No.: 021 - 713 7260 Report no.: 14201

STATEMENT OF AUTHORITY

This report is issued in accordance with the conditions of approval granted by the South African National Accreditation System (SANAS) and without alteration. It is a correct record of measurements made at the time of testing. Copyright of this report is owned jointly by SANAS and Gerotek Test Facilities (GTF) and may not be reproduced other than in full except with prior approval of SANAS and GTF.

This report relates only to the specific samples tested as identified herein. The test results do not apply to any similar item that has not been tested. GTF accepts no liability for losses or legal matters arising from misinterpretation, misunderstanding or misuse of this test report.

Date	Date
2016-11-17	2016-11-18
H Prinsloo SANAS SIGNATORY	R van den Berg TECHNICAL MANAGER
Ministoo.	p.p.
TEST OFFICIAL:	<u>APPROVAL</u> :

DOCUMENT No.: 14201 RESTRICTED

TEST INFORMATION

Test procedure used: IEC60068-2-1 - Environmental testing –Part 2-1:Tests –Test A: Cold Sixth edition,

2007-03

IEC60068-2-2 - Environmental testing -Part 2-2:Tests -Test B: Dry heat Fifth edition,

2007-07

Type of test(s): Temperature tests

Test result: Compliant. Both the plug and key performed satisfactory during the tests.

Test item description: Plug and key

Manufacturer: YeboTech (Pty) Ltd

Model no.: YL15-Plug-01_B and YK15-KeyB-02

Serial no.: N/a
Remarks: None

Date received: 2016-11-15

Test location: Gerotek Test Facilities

Test commencement date: 2016-11-15
Test completion date: 2016-11-17

Test witnessed by: N/a

Ambient temperature: 23°C ±6°C

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1. TEST EQUIPMENT UTILISED

Type of Instrument	Asset no.	Calibration certificate no.
Climatic chamber	13000062	C/2016/055

Traceability: All test equipment utilised to conduct tests were calibrated in terms of standards, the accuracy of which is traceable to the national measuring standards kept and maintained by the NMISA.

2. TEST RESULTS

2.1 Dry heat test in accordance with IEC60068-2-2

The Plug and Key (both marked 01) was stabilised at a temperature of +55°C for 16 hours. Both the units were functionally tested at +55°C (during the last hour of the test) using the *NON-TEST* samples (Plug and Key) provided. The test was performed in accordance with IEC60068-2-2. See photographs in Appendix A.

2.1.1 Results

Both samples performed satisfactory when functionally tested.

2.2 Cold test at -10°C in accordance with IEC60068-2-1

The Key (marked 02) was stabilised at a temperature of -10°C for 16 hours. It was functionally tested during the last hour of the test using the *NON-TEST* Plug provided.

2.2.1 Results

No failures were recorded.

2.3 Cold test at -40°C in accordance with IEC60068-2-1

The Plug (marked 02) was stabilised at a temperature of -40°C for 16 hours. It was functionally tested during the last hour of the test using the *NON-TEST* Key provided.

2.3.1 Results

No failures were recorded.

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Appendix A Photographs

RESTRICTED

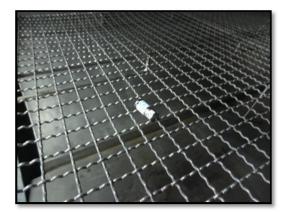
EDITION 1 RESTRICTED

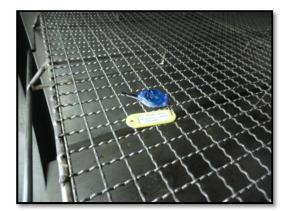
DOCUMENT No.: 14201 RESTRICTED





The plug and key (both marked 01) inside the climatic chamber during the dry heat test





The plug and key (both marked 02) inside the climatic chamber during the cold tests at -40°C and -10°C

Appendix B Certificate of conformance

EDITION 1 RESTRICTED

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Tokai on main Business Park Date: 2016-11-17 **TOKAI** Enquiries: H Prinsloo 7966 Cell no.: 082 7703531

e-mail address: shayne.jones@yebotech.com e-mail address: henniep@gerotek.co.za

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CERTIFICATE OF CONFORMANCE

Test item description Plug and key

Model number YL15-Plug-01_B and YK15-KeyB-02

IEC60068-2-1 - Environmental testing -Part 2-1:Tests -Test A: Cold Sixth

p.p.

R van den Berg

TECHNICAL MANAGER

edition, 2007-03

Specification number IEC60068-2-2 - Environmental testing -Part 2-2:Tests -Test B: Dry heat Fifth

edition, 2007-07

Conformance result Compliant. Both the plug and key performed satisfactory during the tests.

Remarks None **Test date** 2016-11-17

TEST OFFICIAL:

H Prinsloo TEST OFFICIAL

> 2016-11-17 2016-11-18 Date

Date

Directors: Vice Admiral (ret) RJ Mudimu (Chairman), Ms T Skweyiya, Mr KPE Wakeford (CEO), Dr M Khanyile, Adv VLA de la Hunt, Mr NM Tyibilika, Mr RM Vokwana, Mr JG Grobler (Chief Financial Officer), Adv NB Senne (Company Secretary)

