

Test report summary

Tested for: PFK Electronics (PTY) Limited
P:O Box 3660 Durban 4000
Kwazulu Natal South Africa

Tested by: MHF International Road Safety Test Lab
Storgatan 3
543 31 Tibro Sweden

Subcontractor: SGS United Kingdom Ltd, 3C Test Limited, Gerotek

Product name: TAB 720

Serial number: Handunit: T90001, T90002, T90003, T90005, T90010, T90006,
T90007, T50595, T50604, T58594, T 50592, T50592, T50596,
Centralunit: A90001, A90002, A90003, A90004, A90005, A90009,
A90007, A90006, A90008, A50599, A 50596

Test Standard: EN 50436-2:2014

Classification: 6.7 Electrical disturbances
6.9 EMC The tests according to the e-MARK 72/245/EEC as last
Amended by ECE 10.05: e11 10R-055511
8.1 Temperature cycles, code G
8.3 Vibration testing ISO16750-3:2010 4.1.2.4, 4.1.2.8
9.7 Type of protection: IP40
14 Long term behavior (test) 5 month.

Test report no: 1187

Test results: **Approved** In all tests according to EN 50436-2:2014. With
classification according to the specifications above.

Tibro 2017-06-15



Tomas Jonsson
CEO



Ph.D Lars Olov Sjöström
Quality leader



Test report

Every test element has been performed according to approved standards and has been documented in the appendix. The result only applies to the tested objects. The result and the limitations of each test element are shown in this test report.

Date: 2017-06-15

Tested for: PFK Electronics (PTY) Limited
P:O Box 3660 Durban 4000
Kwazulu Natal South Africa

Tested by: MHF International Road Safety Test Lab
Organisation no: 556108-4384
Accredited by Swedac (www.swedac.se)
Storgatan 3
543 31 Tibro Sweden

Subcontractor: The following ISO/IEC 17025:2005 laboratories has been used

SGS United Kingdom Limited No 1116
Accredited by UKAS (www.ukas.com)
Unit 10, Bowburn South Industrial Estate
United Kingdom

3C Test Limited
Accredited by UKAS (www.ukas.com)
Silverstone Technology Park
Silverstone Circuit
Northants NN12 8GX England

Gerotek
Accredited by SANAS (www.sanas.co.za)
WF Nkomo Street
Pretoria West
P.O. Box 7413
Pretoria 0001, South Africa

Test report no: 1187

Test period: 2016-07-04-2017-06-15

Product name: TAB 720

Serial number: Handunit: T90001, T90002, T90003, T90005, T90010, T90006, T90007, T50595, T50604, T58594, T 50592, T50592, T50596, Centralunit: A90001, A90002, A90003, A90004, A90005, A90009, A90007, A90006, A90008, A50599, A 50596

Test Standard: EN 50436-2-:2014

Test result: The following table shows the test result, with reference to detailed documentation in appendix.

Test element	Lab	Result	Appendix
4.1 Blocking and unblocking	MHF	Pass	1&2
4.2 Influence on the vehicle motor	MHF	Pass	1&2
4.3 Tampering	MHF	Pass	1&2
4.4 Concentration limit	MHF	Pass	1&2
4.5 Mouthpiece	MHF	Pass	1&2
4.6 Readiness	MHF	Pass	1&2
4.7 Data memory, download and evalu.	MHF	Pass	1&2
4.8 Retests	MHF	Pass	1&2
4.10 Override function	MHF	Pass	1&2
4.11 Combination with other system	MHF	Pass	1&2
4.12 Communication integrity	MHF	Pass	1&2
4.13 Wireless communication	MHF	Pass	1&2
4.14 Basic functionality	MHF	Pass	1&2
6.2 Supply voltage	MHF	Pass	1&2
6.3 Excess supply voltage	MHF	Pass	1&2
6.4 Short-circuit	MHF	Pass	1&2
6.5 Reversed polarity	MHF	Pass	1&2
6.6 Low-power-consumption state	MHF	Pass	1&2
6.7.1 Supply lines	SGS	Pass	3
6.7.2 Lines other than supply lines	SGS	Pass	3
6.8 Electrostatic discharge	SGS	Pass	3
6.9 Electromagnetic compatibility	VCA	Pass	4
6.10 Functional test under normal	MHF	Pass	1&2
7 Calibration curve	MHF	Pass	1&2
8.1 Temperature cycles	MHF	Pass	1&2
8.2 Condensed water	MHF	Pass	1&2
8.3 Vibration test	Gerotek	Pass	5
8.4 Drop test	MHF	Pass	1&2
9.2 Temperature	MHF	Pass	1&2
9.3 Temperature and supply voltage	MHF	Pass	1&2

9.4 Temperature and humidity	MHF	Pass	1&2
9.5.1 Temperature 20°C	MHF	Pass	1&2
9.5.2 Temperature -5°C	MHF	Pass	1&2
9.5.3 Temperature -20°C	MHF	Pass	1&2
9.6 Pressure	MHF	Pass	1&2
9.7 Protection by enclosure	MHF	Pass	1&2
10.1 Volume	MHF	Pass	1&2
10.2 Flow	MHF	Pass	1&2
10.3 Exhalation time	MHF	Pass	1&2
10.4 Response time	MHF	Pass	1&2
11.1 Test gases	MHF	Pass	1&2
11.2 Cigarette smoke	MHF	Pass	1&2
12.2 Pressurised air	MHF	Pass	1&2
12.3 Prov. of the sample with a mouth. att	MHF	Pass	1&2
12.4 Prov. of the sample without a mouth	MHF	Pass	1&2
12.5 Obstruction of the mouthpiece	MHF	Pass	1&2
12.6 Filter	MHF	Pass	1&2
12.7 Condensation	MHF	Pass	1&2
12.8 Water	MHF	Pass	1&2
12.9 Putting out of service	MHF	Pass	1&2
12.10 Removal of handset	MHF	Pass	1&2
12.11 Bypass	MHF	Pass	1&2
13.1 Start period	MHF	Pass	1&2
13.2 Restart period	MHF	Pass	1&2
13.4.1 Calib. Interval stored in the alcolock	MHF	Pass	1&2
13.4.2 Calib. Interval not stored in the alco	MHF	Pass	1&2
14 Long term behaviour (tested 5 months)	MHF	Pass	1&2
15.1 Instructions for installation	MHF	Pass	1&2
15.2 Instructions for use	MHF	Pass	1&2
15.3 Instructions for servicing the alcohol	MHF	Pass	1&2
17 Labelling and marking	MHF	Pass	1&2

Possible annotations are shown in the test protocol document appendix 1 and 2.

Limits:

6.7 Electrical disturbances

6.9 EMC The tests according to the e-MARK 72/245/EEC as last Amended by ECE 10.05: e11 10R-055511

8.1 Temperature cycles, code G

8.3 Vibration testing ISO16750-3:2010 4.1.2.4, 4.1.2.8

9.7 Type of protection: IP40

14 Long term behavior (test) 5 month.

Test result:

Approved In all tests according to EN 50436-2:2014. With classification according to the specifications above.

Appendix:

No 1: Test protocol document for alkolock no: 253:11
No 2: Test protocol document for alkolock no: 253:12
No 3: Test report SGS no: AUT227047/R/3/16
No 4: Test report VCA: e11 10R-055511
No 5: Test report Gerotek no: 14361



Ackred. nr. 2012
Provning
ISO/IEC 17025

Tibro 2017-06-15

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