

ELECTROTECHNICAL TESTING INSTITUTE

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Ref.: Bz/Sa

No. of the Test Report: 403516-01/01





TEST REPORT

Name of product:

Intercoms

Type of product:

2N® Helios IP Force 9151102CRW,

2N® Helios IP Verso 9155101C

Ratings:

Serial number:

54-0642-1089, 54-0817-0106

Manufacturer:

2N TELEKOMUNIKACE a. s.

Modřanská 621/72, 143 01 Praha 4, Czech Republic

Production site:

dtto manufacturer

EZÚ product coding system:

06 - Environmental tests

Ordering firm:

2N TELEKOMUNIKACE a. s.

Modřanská 621/72, 143 01 Praha 4, Czech Republic

Number of tested samples:

2

Samples submitted on:

13. 8. 2014

Location of testing:

EZÚ

Tested from

13. 8. 2014 through 13. 8. 2014

Other data:

-

The product was tested

according to:

ČSN EN 50486:2009, annex A.7

The test results contained in this report refer to the tested items only. The values presented in this report were measured with the accuracy specified in the testing regulations. All measuring instruments used are properly traceable.

This Report shall not be reproduced except as a whole.

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1. Specimen description

Two intercoms were provided for testing:

- a) 2N® Helios IP Force 9151102CRW
- b) 2N® Helios IP Verso 9155101C



Fig. 1 - specimen 2N® Helios IP Force 9151102CRW



Fig. 2 - label of the specimen 2N® Helios IP Force 9151102CRW



Fig. 3 - specimen 2N® Helios IP Verso 9155101C



Fig. 4 - label of the specimen 2N® Helios IP Verso 9155101C

2. Testing

2.1 Anti-vandalism test

on the basis of ČSN EN 50486:2009, annex A.7

Test apparatus:

flat-blade screwdriver 7.0 x 150 flat-blade screwdriver 4.0 x 100 combination pliers lighter 0,33l can of Coca-Cola

Test procedure:

test 1 - try to unscrew the fixing screws

test 2 - try to pull out the device (note: did not performed due to manner of real attachment)

test 3 - try to pull out the push buttons

test 4 - try to jam the push buttons

test 5 - attack with screwdriver(s)

test 6 - attack with a lighter

test 7 - attack with commercial sof acid-sweet dring (nnote: without subsequent delay)

Note.: During the testing, the devices' function of buttons was monitored by customer staff members.

Findings:

- a) intercom 2N® Helios IP Force 9151102CRW
 - test 1 the screws could not be unscrewed
 - test 2 N/A
 - test 3 no button was pulled or wrenched
 - test 4 no button was jammed
 - test 5 the glass cover of the camera was broken (the camera itself is still functional after the test), the enclosure surface was scratched, no button was damaged (the buttons are still functional after the test)
 - test 6 the bell button was partially scorched, no afterflame of any plastic part occurred, no button backlight was damaged
 - test 7 the drink did not penetrate into the intercom enclosure, the intercom function is not immediately disrupted

After testing, the intercom is functional.

b) intercom 2N® Helios IP Verso 9155101C

- test 1 the screws could not be unscrewed
- test 2 N/A
- test 3 the bell button cover was wrenched (the button was still functional after the test), no button of the numeric keyboard was pulled or wrenched
- test 4 no button was jammed
- test 5 the cover of the camera was not broken (the camera is still functional after the test), the enclosure surface was scratched, no button of the numeric keyboard was damaged (the buttons are still functional after the test)
- test 6 the bell button and the paper label were partially scorched (the button itself is still functional after the test), no afterflame of any plastic part occurred, no button backlight was damaged
- test 7 small amount of the drink penetrated into the intercom enclosure, the intercom function is not immediately disrupted

After testing, the intercom is functional.

compiled by: J. Šašek

3. Photodocumentation - testing and state of the specimens after testing

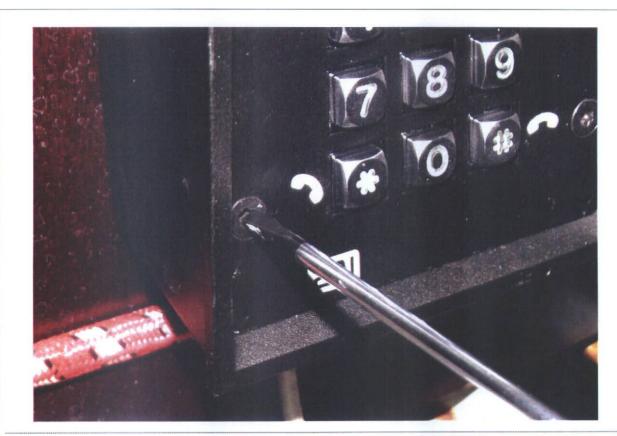


Fig. 5 - test 1 of intercom 2N® Helios IP Force 9151102CRW



Fig. 6 - test 3 of intercom 2N® Helios IP Force 9151102CRW

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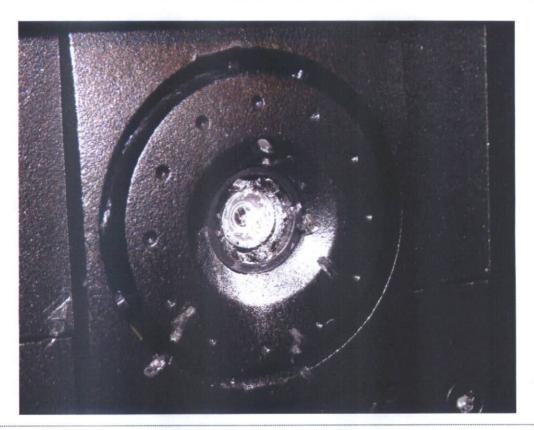


Fig. 7 - broken camera cover of intercom 2N® Helios IP Force 9151102CRW after test 5



Fig. 8 - test 6 of intercom 2N® Helios IP Force 9151102CRW





Fig. 9 - bell button of intercom 2N® Helios IP Force 9151102CRW after test 6

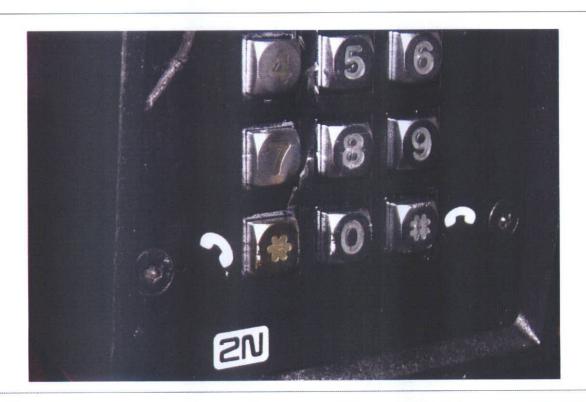


Fig. 10 - button "*" on the numeric keyboard of intercom 2N® Helios IP Force 9151102CRW after test 6



Fig. 11 - functional backlight of all buttons of intercom 2N® Helios IP Force 9151102CRW after testing



Fig. 12 - intercom 2N® Helios IP Force 9151102CRW after testing





Fig. 13 - test 4 of intercom 2N® Helios IP Verso 9155101C

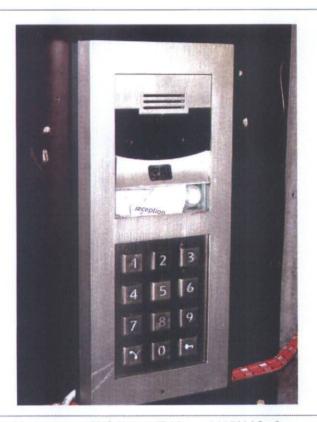


Fig. 14 - intercom 2N® Helios IP Verso 9155101C after test 5



Fig. 15 - test 6 of intercom 2N® Helios IP Verso 9155101C



Fig. 16 - test 6 of intercom 2N® Helios IP Verso 9155101C



Fig. 17 - intercom 2N® Helios IP Verso 9155101C after test 6



Fig. 18 - test 7 of intercom 2N® Helios IP Verso 9155101C





Fig. 19 - intercom 2N® Helios IP Verso 9155101C after testing

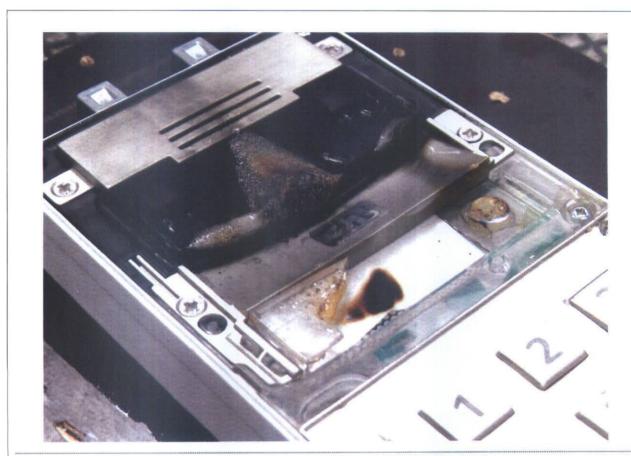


Fig. 20 - intercom 2N® Helios IP Verso 9155101C after testing



Fig. 21 - penetration of the drink in the intercom 2N® Helios IP Verso 9155101C



Fig. 22 - undamaged camera of intercom 2N® Helios IP Verso 9155101C

4. Test result

The submitted specimens

intercoms 2N® Helios IP Force 9151102CRW and 2N® Helios IP Verso 9155101C

were subjected to anti-vandalism test on the basis of ČSN EN 50486:2009, annex A.7. The evaluation in the matter of impact on the function is in customer's competence.

Tested by: J. Šašek

end of Test Report

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