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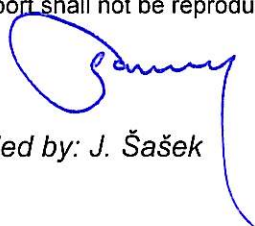


TEST REPORT

Name of product: Intercom
Type of product: 2N® Helios Vario 9135130E, 9135130KE,
9135160E, 9135160KE,
2N® Helios IP Vario 9137111(C)U, 9137131(C)U,
9137161(C)U, 9137111(C)KU,
9137131(C)KU, 9137161(C)KU
9137160(C)KDU
Ratings: IP 53
Serial number: 54-0562-0085
Manufacturer: 2N TELEKOMUNIKACE a. s.
Modřanská 621/72, 143 01 Praha 4, Czech Republic
Production site: dtto manufacturer
EZÚ product coding system: 105001
Ordering firm: 2N TELEKOMUNIKACE a. s.
Modřanská 621/72, 143 01 Praha 4, Czech Republic
Number of tested samples: 1
Samples submitted on: 17.12.2012
Location of testing: EZÚ
Tested from 17.12.2012 **through** 27.12.2012
Other data: Type representative 9137160(C)KDU was tested.
The product was tested according to: EN 60529/A1:2000

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.

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1. Specimen description

Intercom 2N® Helios IP Vario 9137160(C)KDU was provided for testing.

For purpose of testing, the specimen is fixed to an artificial wall.



Fig. 1 - specimen



Fig. 2 - label of the specimen

2. Testing

2.1. Tests of protection provided by enclosures

according to EN 60529/A1:2000

2.1.1. Test of protection against penetration of dust - IP 5X

according to EN 60529/A1:2000, cl. 13.4 and 13.5

Test apparatus:

dust chamber VST 1150, inv. No. 834490

Test parameters:

The specimen was tested in an operating position.
dust filling of the chamber: talc
temperature / relative humidity during the test: 55 °C / 30 %
underpressure: no underpressure
duration of test: 8 h

Findings:

During the test, no harmful amount of dust penetrated into the specimen.

passed

2.1.2. Test of protection against spraying water - IP X3

according to EN 60529/A1:2000, cl. 14.2, 14.2.3 and 14.3

Test apparatus:

spray nozzle, inv. No. 04729 + counterbalanced shield, inv. No. 20111
stopwatch SECCO, cal. No. N700477

Test parameters:

The specimen was tested in an operating position.
testing: see Fig. 3
spray angle: up to 60° from vertical
water flow rate: 10 l·min⁻¹ ±5 %
duration of test: 5 min

Findings:

During the test, no harmful amount of water penetrated into the specimen.

passed



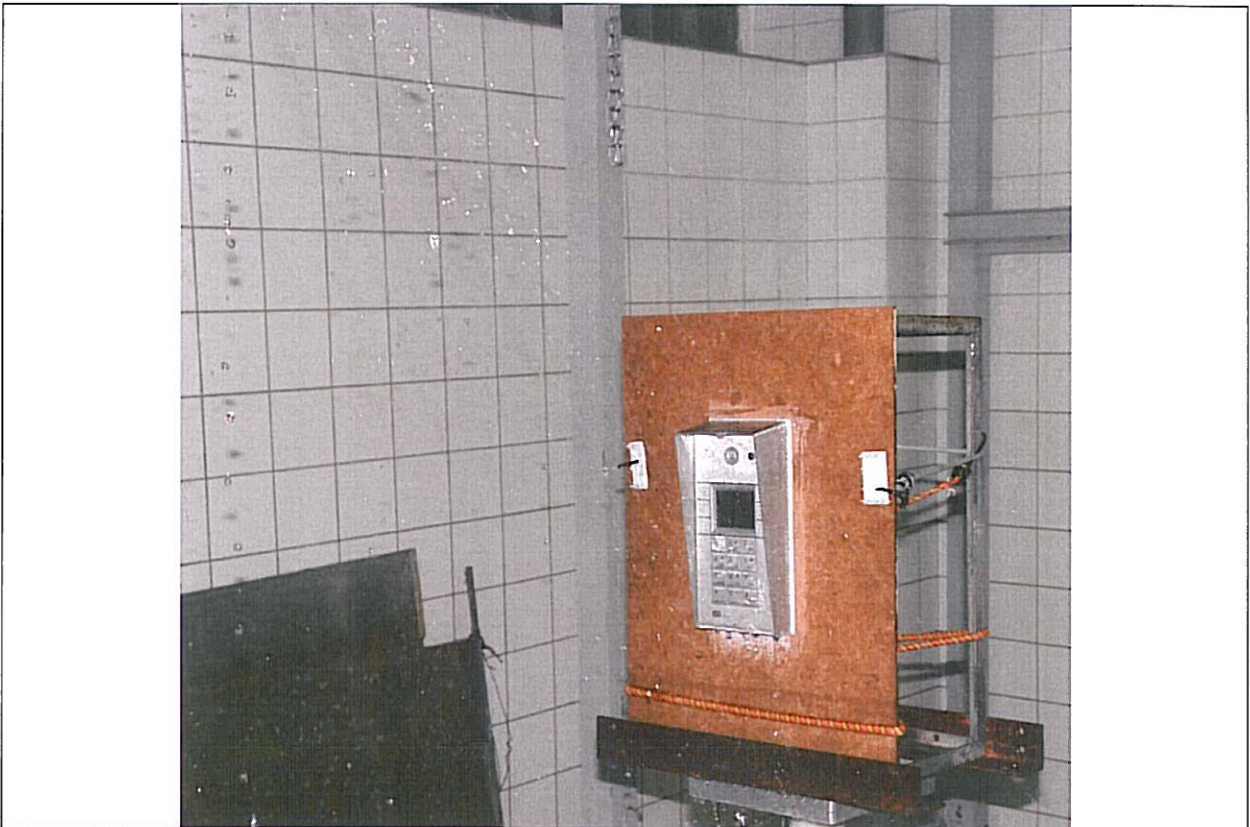


Fig. 3 - IP X3 testing

3. Photodocumentation - design of the specimen

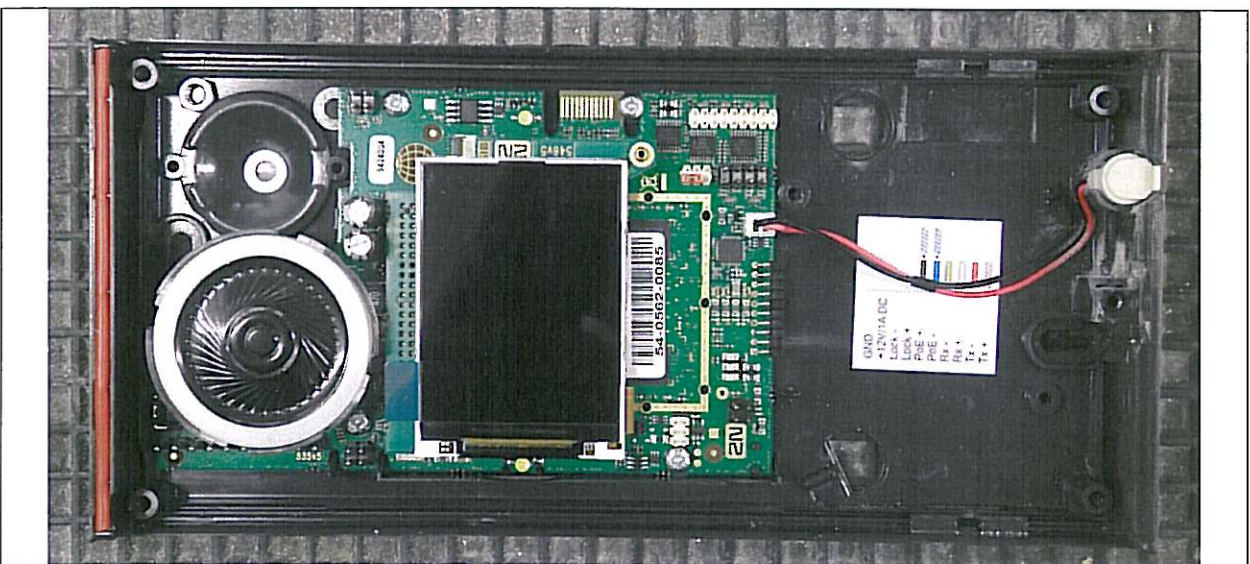
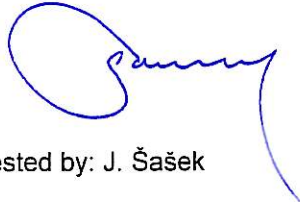


Fig. 4 - sealing of the specimen

4. Test result

The submitted specimen - **intercom 2N® Helios IP Vario 9137160(C)KDU** *satisfies* conditions for degree of protection provided by enclosures **IP 53** according to EN 60529/A1:2000.

Note: Intercom 2N® Helios Vario 9135130E, 2N® Helios Vario 9135130KE, 2N® Helios Vario 9135160E, 2N® Helios Vario 9135160KE, 2N® Helios IP Vario 9137111(C)U, 2N® Helios IP Vario 9137131(C)U, 2N® Helios IP Vario 9137161(C)U, 2N® Helios IP Vario 9137111(C)KU, 2N® Helios IP Vario 9137131(C)KU and 2N® Helios IP Vario 9137161(C)KU have identical enclosure, reduced number of cover elements or equal cover technology. Therefore, test results in this Test Report also regard to these types.



Tested by: J. Šašek