TEST REPORT

Name of product: Intercom

Ratings: IP 65
Serial number: ---
Manufacturer: 2N TELEKOMUNIKACE a. s.
Modfanská 621/72, 143 01 Praha 4, Czech Republic
Production site: dtto manufacturer
EZÚ product coding system: 105001
Ordering firm: 2N TELEKOMUNIKACE a. s.
Modfanská 621/72, 143 01 Praha 4, Czech Republic
Number of tested samples: 4
Samples submitted on: 7.2.2013
Location of testing: EZÚ
Tested from: 7.2.2013 through 8.3.2013

Other data: Type representatives 2N® Helios IP Safety 9152101W, 2N® Helios IP Force 9151102CR, 2N® Helios IP Force 9151101CK and 2N® Helios IP Force 9151104C were 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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Compiled by: J. Šašek
Approved by: J. Bažant
Testing laboratory technical manager
1. Specimen description

Four intercoms were provided for testing:

a) 2N® Helios IP Safety 9152101W
b) 2N® Helios IP Force 9151102CR
c) 2N® Helios IP Force 9151101CK
d) 2N® Helios IP Force 9151104C

For purpose of testing, the specimens were fixed to an artificial wall.
Fig. 3 - specimen 2N® Helios IP Force 9151102CR

Fig. 4 - label of the specimen 2N® Helios IP Force 9151102CR
Fig. 5 - specimen 2N® Helios IP Force 9151101CK

Fig. 6 - label of the specimen 2N® Helios IP Force 9151101CK
Fig. 7 - specimen 2N® Helios IP Force 9151104C

Fig. 8 - label of the specimen 2N® Helios IP Force 9151104C
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 6X
according to EN 60529/A1:2000, cl. 13.4 and 13.6

Test apparatus:
dust chamber VST 1150, inv. No. 834490

Test parameters:
The specimens were tested in an operating position.
dust filling of the chamber: talc
temperature / relative humidity during the test: 55 °C / 30 %
underpressure outlet: via bushing
underpressure: 2 kPa
duration of test: 8 h

Findings:
During the test, no dust penetrated into the specimens.

passed
2.1.2. **Test of protection against water jets - IP X5**
according to EN 60529/A1:2000, cl. 14.2, 14.2.5 and 14.3

**Test apparatus:**
- water jet hose nozzle with internal diameter of 6.3 mm, inv. No. 4695
- stopwatch SECCO, cal. No. N700477

**Test parameters:**
- The specimens were tested in an operating position.
- testing: see Fig. 10
- water flow rate: 12.5 l·min\(^{-1}\) \pm 5 %
- distance from the surface of the specimen: 2.5 \pm 3 m
- duration of test: 3 min

**Findings:**
- During the test, no water penetrated into the specimens.

*passed*

Fig. 10 - IP X5 testing of specimen 2N® Helios IP Force 9151101CK
3. Photodocumentation - design of the specimen

Fig. 11 - sealing of the specimen 2N® Helios IP Safety 9152101W

Fig. 12 - sealing of the specimen 2N® Helios IP Force 9151102CR
Fig. 13 - sealing of the specimen 2N® Helios IP Force 9151101CK

Fig. 14 - sealing of the specimen 2N® Helios IP Force 9151104C
Fig. 15 - sealing of the specimens

Fig. 16 - sealing of the specimens
4. Test result

The submitted specimens

a) 2N® Helios IP Safety 9152101W
b) 2N® Helios IP Force 9151102CR
c) 2N® Helios IP Force 9151101CK
d) 2N® Helios IP Force 9151104C

satisfy conditions for degree of protection provided by enclosures IP 65 according to EN 60529/A1:2000.

Note: 2N® Helios IP Force 9151101C, 2N® Helios IP Force 9151101, 2N® Helios IP Force 9151101K, 2N® Helios IP Force 9151102CR, 2N® Helios IP Force 9151104, 2N® Helios Force 9151201, 2N® Helios Force 9151204, 2N® Helios Force 915201K, 2N® Helios IP Safety 9152101, 2N® Helios IP Safety 9152101C and 2N® Helios Safety 9152201 have identical enclosure and identical cover elements as the tested types. Therefore, test results in this Test Report also regard to these types.

Tested by: J. Šašek

compiled by: J. Šašek