



**ELECTROTECHNICAL TESTING INSTITUTE**  
**Pod Lisem 129**  
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## TEST REPORT

**Name of product:** Intercom  
**Type of product:** 2N® Helios Uni 9153102,  
2N® Helios Uni 9153101,  
2N® Helios IP Uni 9153201,  
2N® Helios IP Uni 9153202  
**Ratings:** IP 54  
**Serial number:** 54-0501-0428  
**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 9153102 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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Compiled by: J. Šašek

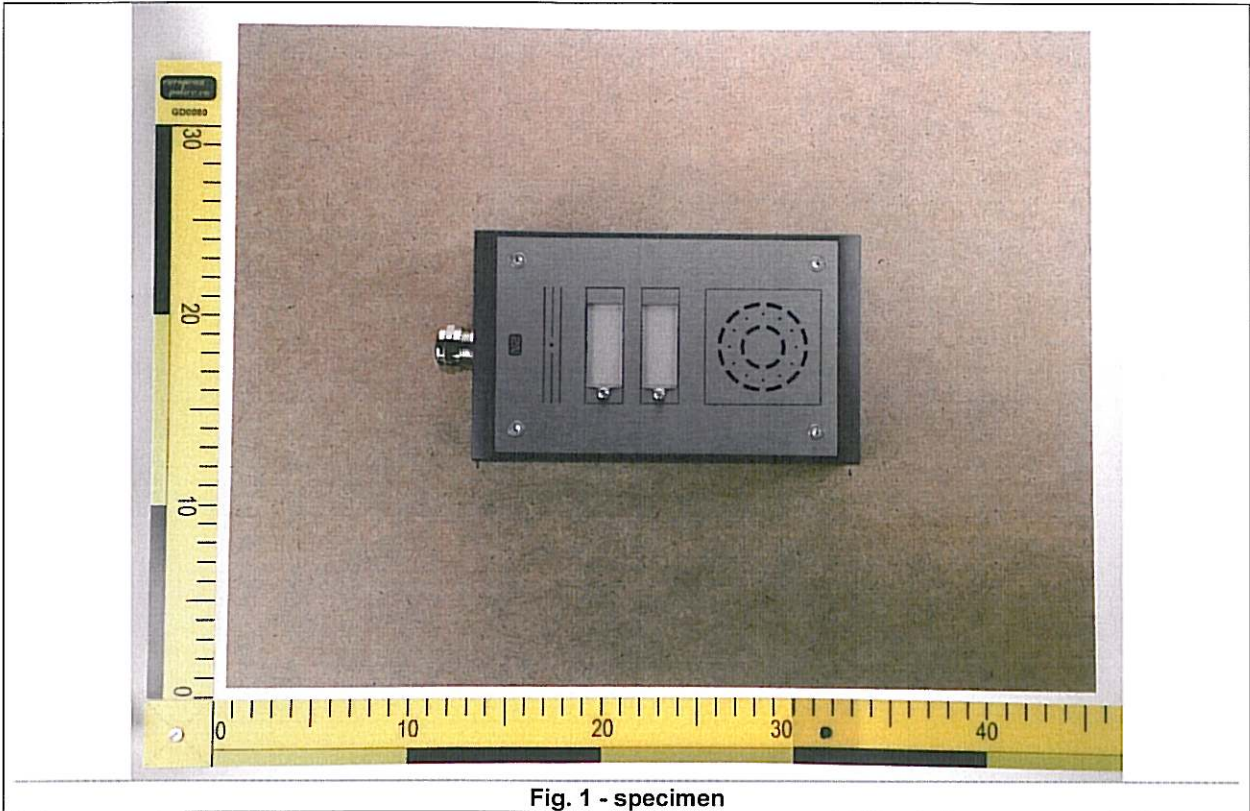


Approved by: J. Bažant  
Testing laboratory technical manager

## 1. Specimen description

Intercom 2N® Helios Uni 9153102 was provided for testing.

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



## 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 splashing water - IP X4

according to EN 60529/A1:2000, cl. 14.2, 14.2.4 and 14.3

##### Test apparatus:

spray nozzle, inv. No. 04729  
stopwatch SECCO, cal. No. N700477

##### Test parameters:

The specimen was tested in an operating position.  
testing: see Fig. 3  
spray angle: up to 180° from vertical  
water flow rate: 10 l·min<sup>-1</sup>  
duration of test: 5 min

##### Findings:

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

*passed*





Fig. 3 - IP X4 testing

### 3. Photodocumentation - design of the specimen

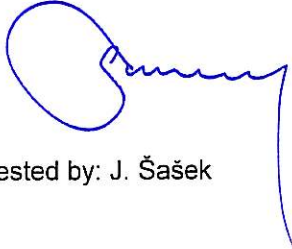


Fig. 4 - sealing of the specimen

#### 4. Test result

The submitted specimen - **intercom 2N® Helios Uni 9153102** *satisfies* conditions for degree of protection provided by enclosures **IP 54** according to EN 60529/A1:2000.

Note: Intercom 2N® Helios Uni 9153101, 2N® Helios IP Uni 9153202 and 2N® Helios IP Uni 9153201 have identical enclosure (or reduced number of cover elements). Therefore, test results in this Test Report also regard to these types.



Tested by: J. Šašek

