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# **F I N A L R E P O R T**

## **O F P R O D U C T C O N F O R M I T Y A S S E S S M E N T**

**Report reference No : 90300021**

**Product name** : Controlling devices  
**Type mark** : specifitation on the next page  
**Manufacturer** (name & address) : Nero Electronics Ltd.  
12-202, Ingenernaya Street  
220075 Minsk, Republic of Belarus  
**Customer** (name & address) : Nero Electronics Ltd.  
12-202, Ingenernaya Street  
220075 Minsk, Republic of Belarus  
**Order reference** : 90300021  
**Count of test sample** : see point 2.1  
**Elaborated by** : Štefánia Melúchová  
**Approved by** : Ing. Peter Heriban

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TSÚ Piešťany, š.p., SKTC-104 submits this final report as a basic document of product conformity certification:

## **„Controlling devices“**

### **Specification of product:**

- executive device with radio YC-ЭП (type Nero II 8713-50) ;
- executive device YC-Э (type Nero II 8413-50), YC-ЭП (type Intro II 8513-50) ;
- single-channel radio control Radio 8113-50;
- executive device YC-Э (type Nero II 8413 UPM), YC-Э (type Nero II 8413 UP) ;
- executive device with radio YC-ЭП (type Intro II 8513 UPM), YC-ЭП (type Intro II 8513 UP), YC-ЭП (type Intro II 8513A);
- executive device with radio and additional memory for 500 transmitters YC-ЭП (type Intro II 8513 UPM-500);
- single-channel radio control Radio 8113 UPM, Radio 8113 UP, Radio 8113A;
- radiocard Intro II 8517 UPM;
- radiocard with additional memory for 1000 transmitters Intro II 8517 UPM-1000;
- radiocard Radio 8117 UPM;
- radiocard with additional memory for 1000 transmitters Radio 8117 UPM-1000;
- single-channel radio control Radio 8113 IP, Radio 8113 IP 65, Radio 8113 IP 65-1000;
- executive device Intro II 8522 UP, Intro II 8522 UPM;
- transcoder YC-ЭП (type Nero II 8761), YC-ЭП (type Nero II 8761 UP), YC-ЭП (type Nero II 8761 UPM);
- transcoder Nero II 8464;
- eight-channel wall remote control Intro II 8505-50-8;
- six-channel wall remote control Intro II 8505-50-6;
- four-channel wall remote control Intro II 8505-50-4;
- eight-channel wall remote control Radio 8105-50-8;
- six-channel wall remote control Radio 8105-50-6;
- four-channel wall remote control Radio 8105-50-4;
- central remote control ДУ Intro II 8533-9;
- central remote control ДУ Radio 8133-9;
- wall remote control YC-ДП (type Intro II 8503-50);
- wall remote control Radio 8103-50;
- five-channel remote control Intro II 8501-5;
- five-channel remote control Radio 8101-5;
- four-channel mini remote control Intro II 8501-4;
- two-channel mini remote control Intro II 8501-2;
- single-channel mini remote control Intro II 8501-1;
- four-channel mini remote control Radio 8101-4;
- two-channel mini remote control Radio 8101-2;
- single-channel mini remote control Radio 8101-1;

### **PRODUCT DESCRIPTION**

Generally, the devices are intended for the control of the electric drives of garage doors, awnings and shutters, electrical and electromechanical locks for doors and gates.

Radio system was created specifically to address common tasks remote control. Thanks to a wide range of transmitters (remotes) and receivers can choose any version control roller shutters, blinds, gates, lighting, combining with each other radio modules. Radio is also a simple and reliable way to automate the building with a finished interior decoration.

Intro II is the best solution to control objects on the radio, based on a philosophy of reliability and security. Products have created an innovative radio system that is:

- The most reliable means of building automation with a finished interior decoration;
- The most secure solution data on the radio thanks to the patented protection against harmful interference, and scanning.

Photos:

1. Executive device with radio YC-ЭP (type Nero II 8713-50)



2. Transcoder YC-ЭP (type Nero II 8761)

3. Eight-channel wall remote control Intro II 8505-50-8



4. Four-channel mini remote control Intro II 8501-4



## **2. CONFORMITY ASSESSMENT PROCEDURE**

### **2.1. Conformity assessment documents.**

By assessment of conformity have been used documents provided by the order party and documents elaborated by performer. The scope and specification of the individual documents are listed in Clause 5.

The order party has simultaneously submitted a sample for the assessment of conformity:

sample 1 – 3: Nero II 8713-50 – r/n 01419615090001,  
r/n 01419615090002, r/n 01419615090003

sample 4 – 6: Nero II 8761 - 6/H

sample 7 – 9: Intro II 8505-50-8 - s/n 00867120080002,  
s/n 01361109090007, s/n 01361109090021

sample 10 – 12: Intro II 8501-4 - r/n 014117815090001,  
r/n 014117815090004, r/n 014117815090005

The sample was submitted to BelGISS Minsk on 07. February 2009.

### **2.2. Conformity assessment scope.**

The assessment of conformity has been accomplished in accordance with the Agreement Nr. 90300021 in the following extent:

- The assessment of product conformity with technical requirements of applicable European directives of the new approach for the purpose of CE marking of the product

On the basis of analysis of available European directives of the new approach, we established the following European directives applicable on the conformity assessment of products in question:

- **Low Voltage Directive (LVD) 2006/95/EC**
- **EMC Directive 2004/108/EC**

### **2.3. Applicable technical standards and regulations**

- EN60730-1:2000+A1:2004+A12:2003+A13:2004+A14:2005+A15:2007+A16:2007 +A2:2008 +Cor:2007 Automatic electrical controls for household and similar use. Part 1: General requirements
- EN 60730-2-1:1997+A11:2005+Cor:2001-03 Automatic electrical controls for household and similar use. Part 2: Particular requirements for electrical controls for household appliances
- EN 50065-1:2001+A11:2010 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

- EN 50065-2-1:2003+A1:2005+Cor:2003-08 Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz -- Part 2-1: Immunity requirements for mains communications equipment and systems operating in the range of frequencies 95 kHz to 148,5 kHz and intended for use in residential, commercial and light industrial environments
- EN 61000-3-2:2006/A1:2009/A2:2009 Electromagnetic compatibility (EMC). Part 3-2: Limits. Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)
- EN 61000-3-3:2008 Electromagnetic compatibility (EMC). Part 3: Limits Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current? 16 A

### 3. CONFORMITY ASSESSMENT RESULTS

#### 3.1. Summary of conformity assessment results

Serial Nr.	EC Directives	Technical standards and regulations	Evaluation
1	LVD Directive 2006/95/EC	EN60730-1:2000 +A1:2004+A12:2003+A13:2004+A14:2005+A15:2007+A16:2007 +A2:2008 +Cor:2007  EN 60730-2-1:1997 +A11:2005+Cor:2001-03	meets
2	EMC Directive 2004/108/EC	EN 50065-1:2001+A11:2010 EN 50065-2-1:2003 +A1:2005+Cor:2003-08 EN 61000-3-2:2006/A1:2009/A2:2009 EN 61000-3-3:2008	meets

#### 3.1.1. Low voltage Directive 2006/95/EC, establishing details on technical requirements and conformity assessment procedures for electrical equipment designed for use within certain voltage limit

- ☒ The assessment of conformity with technical requirements of the present Directive has been accomplished on the basis of documents listed in Clause 5.2, provided by the order party and on the basis of the following documents:
  - Test report Nr. 2009-47 of 03. August 2009. This report was elaborated by TC BelGISS.
- ☒ It has been determined, by comparison of the product characteristics and by assessment of engineering documentation, conformity with technical requirements established in the present European Directive of the new approach



### 3.1.2. EMC Directive 2004/108/EC on technical requirements for products related to electromagnetic compatibility

- ☒ The assessment of conformity with technical requirements of the present Directive has been accomplished on the basis of documents listed in Clause 5.2, provided by the order party and on the basis of the following documents:
- ☒ Test report Nr. 2009-47 of 03. August 2009. This report was elaborated by TC BelGISS.
- ☒ It has been determined, by comparison of the product characteristics and by assessment of engineering documentation, conformity with technical requirements established in the present European Directive of the new approach

## 4. CONCLUSION

From the conformity assessment results follows that the product characteristics are in conformity with the technical requirements of the relevant European directives of the new approach.

## 5. APPLICABLE DOCUMENTS

### 5.1 Basic documents for conformity assessment

- The Agreement Nr. 90300021 on conformity assessment
- EU directives of the new approach for the purposes of conformity assessment

### 5.2 Documents submitted by the order party

- operating instructions of products

### 5.3 Documents elaborated by TC BelGISS

- Test report Nr. 2009-47 of 03. August 2009. This report was elaborated by TC BelGISS.

Test reports listed in Clause 5.3 constitute an Annex of this Final record of product conformity assessment.



**Ing. Peter HERIBAN**  
product certification manager