



## EU TYPE EXAMINATION CERTIFICATE NO PL 17 009

Issued by: GŁÓWNY URZĄD MIAR  
ul. Elektoralna 2, 00-950 Warszawa

Notified Body 1440

In accordance with: Directive 2014/31/UE of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of non-automatic weighing instruments implemented by regulation of Minister of Economic Development of 2 June 2016 on requirements for non-automatic weighing instruments

Issued to manufacturer: RADWAG WAGI ELEKTRONICZNE Witold Lewandowski  
ul. Bracka 28, 26-600 Radom, Poland

In respect of: electronic non-automatic weighing instrument,

type: depending on composition of used modules

accuracy class: III or IIII

maximum capacity *Max*: depending on composition of used modules

temperature range: depending on composition of used modules

Final statement: non-automatic weighing instrument satisfies the requirements set out in the Directive 2014/31/UE of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of non-automatic weighing instruments

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Number of pages: 4

The principal characteristics, approval conditions and special regulations, if any, are set out in the Annex, which forms an integral part of the certificate.



Warszawa, 26.10.2017

Z up. Prezesa Głównego Urzędu Miar

Maciej Dabieszewski.....  
WICEPREZES

Prezes GUM



## REFERENCE DOCUMENTS

The conformity assessment of the weighing instrument is proved on base of the harmonized standard EN 45501:2015 – “Metrological aspects of non-automatic weighing instruments” and the certification program GUM-PCertB.

### 1 DESIGNATION OF WEIGHING INSTRUMENT

The electronic non-automatic weighing instrument, accuracy class III or IIII, that operates on basis of the analog-to-digital conversion of the output signal of the load cell, further processes the data, and supplies the weighing result in a digital form.

The weighing instrument consists of the following modules:

- an indicator and processing unit,
- load receptor(s),
- load cell(s).

The type designation is dependent on composition of used modules:

Manufacturer of indicator	Type of indicator	Certificate of the indicator	Designation of NAWI
Radwag	PUE HX5.EX	TC11120	HX5.EX
Radwag	PUE C32	PL CO 01/17	C32

### 2 DESCRIPTION OF SETUP AND FUNCTIONS

#### 2.1 Devices and functions

Approved functions and features are described in the certificate of the indicator and processing unit involved. All properties of the weighing instrument, whether mentioned or not, shall not be in conflict with the legislation.

### 3 TECHNICAL DATA

#### 3.1 Weighing instrument

The main metrological characteristics as *Max*, *Min*, scale intervals (*e*), and number of scale intervals (*n*) and temperature range may be selected in accordance with No. 2 and 3 of Appendix I to Directive 2014/31/EU considering the limiting values of used modules.

#### 3.2 Load cells

Any load cell(s) may be used under this certificate provided the following conditions are met:

- There is a respective test certificate (EN45501) or an OIML Certificate of Conformity (R60) (1991 or 2000) issued for the load cell by a Notified Body responsible for type examination under Directive 2014/31/EU.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules (WELMEC 2 Issue 6 Section 10), and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to EN45501 has been conducted on this load cell.
- The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in the above WELMEC 2 document, at the time of putting into use.



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- The load transmission must conform to one of the examples shown in WELMEC Guide for load cells.

### 3.3 Load receptor and connection box of load cells

The load receptors may be constructed provided the conditions of WELMEC Guide for load cells are met.

### 3.4 Documents

The technical documents relating to this Certificate are deposited in Central Office of Measures (GUM).

## 4 INTERFACES AND PERIPHERAL DEVICES

### 4.1 Interfaces

Interfaces used must comply with the paragraph 8.4 of the Annex I of the Directive 2014/31/EU and point 5.3.6 of EN 45501. Used interfaces are mentioned in the certificate of used module.

### 4.2 Peripheral devices

Devices which can be connected:

simple recipient peripheral devices with neither test or part certificate nor note in the EU type examination certificate if the requirements according to WELMEC Guide 2.5 (2000), section 2.2, are fulfilled.

For purposes not subject to legal verification any peripheral device may be connected.

### 4.3 Non-essential devices

Any non-essential device can be connected to the electronic instrument via any external hardware interface (additional displays, printers, barcode scanners, pen drives etc.) provided that the metrological characteristics are not adversely influenced.

## 5 RESERVATION TO THE APPROVAL

For the instrument mentioned in this Certificate, the essential requirements according to Annex I of Directive 2014/31/EU (NAWID) of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of non-automatic weighing instruments (OJ L96/107) apply.

The compatibility of modules have to be satisfied according to WELMEC 2 Issue 6 Section 10.

The composition of all modules must comply with the requirements of EN 45501 point 3.5, 3.10 and Annex F.

The load transmission must conform to one of the examples shown in the WELMEC Guide for load cells.

The instrument is fitted with a levelling device and a level indicator, unless it is installed in a fixed position or freely suspended (crane or hanging instrument). The level indicator should have a sensitivity of at least 2 mm for a tilt of 2/1000.

## 6 VERIFICATION MARK LOCATION

A verification mark in the form of a self-adhesive label is located partly on a data plate and partly on the instrument.



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**7 STAMPING LOCATION**

To secure components that may not be dismantled or adjusted by the user, the non-automatic weighing instrument has to be secured in a suitable manner on the locations indicated in certificate of used modules.

The securing components have to bear either:

- a mark of the manufacturer laid down in a notified body approved quality system (Annex II of the Directive 2014/31/EU)
- an official verification mark of the relevant notified body.

Sealing of connection between indicator, load cells and load receptor is carried out by any of following manner:

- sealing of load cell connectors on indicator – wire and seal,
- identification of serial number of load receptor on indicator's data plate,
- identification of indicator's serial number on load receptor.

If there is a connection box of cells it must be secured by control marks.

**8 CE MARKING**

The CE marking and the supplementary metrology marking as per article 16, paragraph 2 of the Directive 2014/31/EU (it shows together with the CE-marking indicate the conformity with the essential requirements of Directive 2014/31/EU) are located on the data plate.

The data plate is secured against removal by sealing or will be destroyed when removed.

The identification number of the notified body shall be affixed by the body itself or, under its instructions, by the manufacturer or his authorised representative.

