



OIML Member State
Czech Republic

OIML Certificate No.
R76/2006-A-CZ1-2023.02

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **Czech Metrology Institute**
Address: Okružní 31
638 00 Brno
Czech Republic

Person responsible: Jan Kalandra

Applicant

Name: RADWAG Wagi Elektroniczne Witold Lewandowski
Address: 5 Toruńska Street
26-600 Radom
Poland

Manufacturer

Name: RADWAG Wagi Elektroniczne Witold Lewandowski
Address: 5 Toruńska Street
26-600 Radom
Poland

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

Non-automatic weighing instruments

**type: XA xxx.4Y.yyy PLUS or XA xxx.5Y.yyy; MYA xxx.4Y.yyy PLUS or MYA xxx.5Y.yyy;
UYA xxx.4Y.yyy PLUS or UYA xxx.5Y.yyy**

Designation of the module *(if applicable)*

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This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 76-1 Edition (year): 2006

For accuracy class I



This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated reports:

Test reports: 6052-PT-CH020-19; 6052-PT-CA019-20 and 8551-PT-E0278-19; 8551-PT-E0005-22

OIML type evaluation report No. 0511-ER-N004-22 dated 9 May 2023 that includes 12 pages

The technical documentation relating to the identified type is contained in documentation file:

0511-UL-N004-22

OIML Certificate History

Revision No.	Date	Description of the modification
-	9 May 2023	Issuing certificate

The OIML Issuing Authority

RNDr. Pavel Klenovský
Head of Certification Body



Date: 9 May 2023

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML MemberState in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Characteristics

Type: XA xxx.4Y.yyy PLUS; XAxxx.5Y.yyy; MYA xxx.4Y.yyy PLUS or UYA xxx.4Y.yyy;
MYAxxx.5Y.yyy or UYA xxx.5Y.yyy

Main metrological characteristics

XA xxx.4Y.yyy PLUS or XA xxx.5Y.yyy	MYA xxx.4Y.yyy PLUS or UYA xxx.4Y.yyy PLUS or MYA xxx.5Y.yyy or UYA xxx.5Y.yyy
Max \leq 360 g or Max \leq 1800 ct	Max \leq 52 g or Max \leq 110 ct
$e \geq 1$ mg or $e \geq 0,01$ ct	$e \geq 1$ mg or $e \geq 0,01$ ct
$0,001 e \leq d \leq e$	$0,0001 e \leq d \leq e$
$n \leq 360\ 000$	$n \leq 52\ 000$
Temperature range + 10°C / + 40°C	
Accuracy class I	

Devices:

- Zero indicator
- Stability of equilibrium determination
- Second interval indication
- Set up mode via a jumper on the digital module board
- Automatic span adjustment with internal calibration mass
- Checking the display
- Initial zero-setting
- Zero-tracking
- Printer
- Add display
- PC keyboard
- USB
- Ethernet
- WiFi
- RFID
- HDMI
- USB C

The instruments must be equipped with a level indicator with a sensitivity of at least 2 mm for a tilt of 2/1000

Interfaces

RS 232, USB, Ethernet, I/O, WiFi and USB C, RFID, HDMI

Software

Instruments are equipped with hybrid system with **embedded software version 1.0.0 or 1.0.1 weighing software** with all the basic weighing functions and legally relevant parameters and **embedded software version** working under Linux operating system that is used for terminal operation – **NL.1.8 S or NL1.8.P or LL.1.9 S or LL.1.9 P for 4Y; LL2.0 for 5Y (terminal software)** version.

Both pieces of software working under Linux operating system and Windows operating system include DSD (alibi memory), printing and displaying functions.

It is impossible to download any piece of software when an instrument is verified. Downloading software requires unblocking it in factory parameters and access to them can be reached after destroying verification stickers that constitute evidence of intervention. Software identification is possible after pressing the ON/OFF button.

DSD Alibi Memory

Instruments are equipped with a memory module (Alibi memory) used as a database system acting as a long term memory. It saves automatically weighing results using an embedded flash memory. Data are protected against deletion for a given period (configurable). Balances software is running on Linux operating system They are designed as closed shell systems protected against running applications other than the one loaded in the internal flash memory by the manufacturer. These systems use FAT32 or ext3 (third extended file system) for files allocation. The record of weighing holds all relevant information required i.e. net and tare values together with units, date and time record as an identifier, platform number as the load receptor designation and some other that are not relevant but useful for other applications. Weighings in DSD are identified by date and time which is one of fields in the relevant part of the weighing record. It is saved in the Windows or Linux date format standard that allows to present the date in a format with accuracy that meets Welmec 2.5 requirements and allows to present dates in format yyyy-mm-dd, hh:mm:ss. Weighings are saved automatically. Measurements are initiated by pressing the print/enter button or by automatic measurement triggering after fulfilling some conditions (e.g. results between MIN and MAX or over LO) depending on the device configuration. Each stored weighing can be printed and/or shown on the main display. The printer is not the part of DSD.