



OIML Member State
Czech Republic

OIML Certificate No.
R76/2006-A-CZ1-2023.01

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **Czech Metrology Institute**
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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: xxx.yyy.n.HRP.zzz, xxx.yyy.n.HRP.EX.zzz

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 **II** and **III**



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 report 6052-PT-Z0002-22 that includes 49 pages and 8551-PT-E0187-22 that includes 51 pages
OIML type evaluation report No. 0511-ER-N104-23 dated 13 February 2023 that includes 10 pages

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

0511-UL-N104-22

OIML Certificate History

Revision No.	Date	Description of the modification
	13 February 2023	Issuing certificate

The OIML Issuing Authority

RNDr. Pavel Klenovský
Head of Certification Body

Date: 13 February 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 of the instrument

Instrument xxx.yyy.n.HRP.zzz series (where: xxx – terminal name: 5Y, HY10 or 7.1, yyy – maximum range, n – optional pan size, zzz – optional design) consists of HRP weighing module which can be connected to 5Y, PUE HY10 or PUE 7.1 indicator.

Main metrological characteristics

class II	class III
$n \leq 32000$	$n \leq 10000$
Max ≤ 2000 kg	Max ≤ 2000 kg
$e \geq 1$ g	$e \geq 1$ g
$0,1e \leq d \leq 1e$	$d=e$
Multiple range operation	
The temperature range is + 10°C / +40°C	

Power supply version with PUE HY10	100÷240 V AC 50-60 Hz
Power supply version with PUE 7.1 / PUE CY10(5Y)	12÷ 24V DC
Power supply version with PUE HX5.EX	100÷240 V AC 50-60 Hz through dedicated power supplies only PM01.EX – for terminals PM02.EX – for platforms
Optional power supply of HRP module	Pow. adapter 100 ÷ 240 V AC / 12 ÷ 24 V DC
Operating temperature	+10 - +40 °C
Relative humidity	15% ÷ 80%
Protection Class version with PUE HY10	IP 66/67
Protection Class version with PUE 7.1 / PUE CY10 (5Y)	IP 32
Outputs supply voltage of HRP module	12 ÷ 24 V DC
Max outputs current of HRP module	100 mA
Control voltage range for input of HRP module	12 ÷ 24 V DC
Max. pan size	360 x 280 mm or 400 x 500 mm with support construction for platform without leverage, or 800 x1000 mm for platform with leverage, or 1250 x 1000 for platform with double leverage
Accuracy class	II or III

Interfaces

Interfaces used must comply with 5.3.6 of OIML R76 (2006). Following types of interfaces are used in HRP module: RS 232, Ethernet, RS 485, Profibus, ProfiNet, CAN. Additional, not protected interfaces: digital I/O 2 inputs / 2 outputs or 4 inputs / 4 outputs. Connectors and/or glands may be used for connection.

Following types of interfaces are used in PUE 7.1 indicator: RS232, USB, Ethernet, Wi-Fi, 4 inputs / 4 outputs

Following types of interfaces are used in PUE HY10 indicator: RS232, USB, Ethernet, 4 inputs / 4 outputs.

PUE HY10 indicators can have optional types interfaces: 12 inputs / 12 outputs, analog output, Profibus, RS485, CAN, Profinet, WiFi.

Following types of interfaces are used in 5Y.xxx.HRP with PUE CY10 terminal: 2 x USB A, 1 x USB type C, Ethernet, HDMI, WiFi, RFID.

Following types of interfaces used in PUE HX5.EX: 2 x RS232, RS 485 and optionally 4 inputs / 4 outputs (digital lines).

Software

Determining the weighing result and its status is performed by the embedded software during measurement in real time. Then the weighing result and the status is transmitted in digital form via protected interface to a weighing indicator (PUE 7.1 or PUE HY10) operating as a terminal for displaying and/or printing weighing results and having a keyboard for operator's interaction with the weighing instrument e.g. editing and entering parameters, zeroing, tarring etc.

The valid software version is **3.18 or 3.18EX (for EX versions)**.

Software version of weighing indicators PUE CY10 (5Y) is: **LL2.0**

Software identification can be done (if terminal is connected) by pressing button on/off when terminal PUE 7.1 or PPUE HX5.EX is on or pressing backspace key in case of terminal PUE HY10. After this action a window with software versions appears on the display. In case of terminal PUE CY10 (5Y) the software version is visible after pressing a top bar on the main display.

DSD Alibi Memory

Balances xxx.yyy.n.**HRP**.zzz use standard alibi memory of indicators PUE 7.1, PUE CY10 (5Y), PUE HY10 and PUE HX5.EX. The alibi memory from HRP module is disabled in configurations described by this certificate. Indicators PUE 7.1, PUE CY10, PUE HY10 or PUE HX5.EX can be 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 micro SD card or memory chip. Data are protected against deletion for a given period (configurable). Indicator software is running on Windows Embedded Compact 7 or LINUX OS or directly on processor in case of PUE HX5.EX. Protection is done by means of operating system and physical prevention of loading other software. Software is identified as whole package and identification is accessible via user interface.