



OBAC

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) TYPE EXAMINATION CERTIFICATE

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) Type examination certificate No: **OBAC 19 ATEX 0214X**

(4) Product: **High Resolution Platforms type PL.**.HRP.EX.***

(5) Manufacturer: **RADWAG Wagi Elektroniczne Witold Lewandowski**

(6) Address: **Toruńska 5, 26-600 Radom**

(7) This equipment, component or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.

(8) Ośrodek Badań Atestacji i Certyfikacji OBAC Sp. z o.o. (The Institute for Research and Certification „OBAC” Ltd) certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or protective systems intended for use in potentially explosive atmospheres given in Annex II to the European Council Directive 2014/34/EU.

The examination and test results are recorded in the confidential report No. OBAC/19/ATEX/0214.

(9) Compliance with the Safety Requirements has been assured by conformity with:

EN IEC 60079-0:2018

EN 60079-11:2012

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the schedule to this certificate.

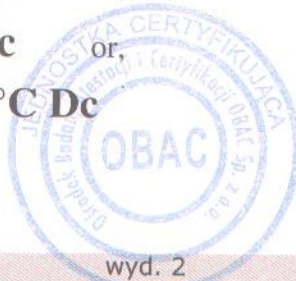
(11) This certificate is valid from **22.01.2020** until **21.01.2025** and relates only to the design, assessment and tests of the specified equipment according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment.

(12) The marking of the equipment, component or protective system must include the following:

 **II 3G Ex ic IIC T4 Gc** or,

 **II 3G Ex ic IIB T4 Gc** or,

 **II 3D Ex ic IIC T60°C Dc**



**Certification Body
Manager**

Piotr Tarnawski M. Com.

Gliwice, 22nd January 2020.



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(13)

SCHEDULE

(14)

to the Type Examination Certificate
no. OBAC 19 ATEX 0214X

(15) Ex Product description:

High resolution platforms are devices used for mass measurement. They comprise a measuring module, i.e. a component transforming external mechanical load into a digital signal. The measuring module features a hermetic casing inside of which a measuring mechanism and electronics board are housed. It is equipped with connectors for power supply and data transmission cable, which connectors are installed on the module's side wall.

The module is coupled to the weighing platform construction. To the measuring module, a load carrier can be connected either directly or through a system of levers and leverage. The connection method is conditioned by the mechanical design of the weighing platform and its maximum load.

Marking:

PL..HRP.EX.***

Platform capacity, e.g.:

150 – 150kg, single range
60/150 – 60/150kg, dual range

Platform size (optional parameter):

1, 2, 3 ...

Platform version (optional parameter):

H..., ...Q, HQ

Example marking:

PL.150.HRP.EX.H
PL.300.HRP.EX
PL.300.1.HRP.EX
PL.2000.HRP.EX.Q

Rated data:

Ambient temperature range $-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Degree of protection IP66/IP67

Intrinsic safety related parameters:

– **M12 4p Female socket**

pin 1-4 (V1): $U_i=8\text{V}$
pin 2-4 (V4): $U_i=15\text{V}$
pin 3-4 (V5): $U_i=-15\text{V}$

/DC inputs V1, V4, V5/:

I_i, P_i - not relevant
 $I_i=45\text{mA}$ P_i - not relevant
 $I_i=-45\text{mA}$ P_i - not relevant

L_i, C_i – negligible
 L_i, C_i – negligible
 L_i, C_i – negligible



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- **M12 4p Male socket** /RS 485/:
pin 1-3: $U_o=3,5V$ $I_o=39mA$

L_o	50mH	10mH	1mH	0,1mH
C_o	3,5 μ F	7,5 μ F	13 μ F	25 μ F

$U_i=6V$ $I_i=71mA$ P_i - not relevant L_i, C_i – negligible

- (16) High resolution platforms PL.*.HRP.EX.* meet the requirements for devices with explosion proof design and may be used as devices of group II, category 3G or 3D.
- (17) Special conditions for safe operation:
– WARNING - potential electrostatic charging hazard - see instructions.
– Ambient temperature range: $-10^{\circ}C \leq Ta \leq +40^{\circ}C$.
- (18) The compliance with Essential Health and Safety Requirements (EHSRs) has been assured by compliance with standards shown in p. 9 of this certificate.
- (19) List of agreed documentation:
– „Platformy PL.HRP.EX dokumentacja techniczna” no. DT-HRP.EX-REV01, 07.2019.
– „PL.HRP.EX high resolution platforms”. User manual no. IMMU-310-01-12-19-EN, 12.2019.

