



OBAC

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

(1) **EU-TYPE EXAMINATION CERTIFICATE**

(Translation)

- (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) EU type examination certificate No: **OBAC 17 ATEX 0166**
- (4) Product: **Ringbalance meter with 4-20mA loop powered transmitter type RW 65 EX II**
- (5) Manufacturer: **Rixen Messtechnik GmbH & Co. KG**
- (6) Address: **Kornweg 1, D-44805 Bochum**
- (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) The Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 17 of the European Council Directive 2014/34/EU of February 26, 2014, 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 Directive. The examination and test results are recorded in the confidential report No. OBAC/16/ATEX/0456
- (9) Compliance with the Safety Requirements has been assured by conformity with:
- | | |
|------------------------------------------------|--------------------------------------------------|
| PN-EN 60079-0:2013
(EN 60079-0:2012) | PN-EN 60079-11:2012
(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 EU-type examination certificate relates only to the design, evaluation and tests of the specified equipment, component or protective system 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, component or protective system.
- (12) The marking of the equipment, component or protective system must include the following:



II 1G Ex ia IIC T4 Ga



II 1D Ex ia IIC T135°C Da



**Certification Body
Manager**

Piotr Tarnawski M. Com.



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(13)

SCHEDULE

(14)

**to the EU-Type Examination Certificate
No. OBAC 17 ATEX 0166**

(15) Ex Product description:

Device consist of ring balance meter and 4-20mA loop powered transmitter, both enclosed in steel housing fitted with hinged cover. Contactless angle sensor engages mechanical part of device with encapsulated electronics. Cable permanently connected to pcb is led out of the enclosure through cable gland mounted on enclosure's bottom between two hose barbs.

Rated data:

Power supply and signal	24VDC loop powered, 4-20mA
Degree of protection	IP54
Ambient temperature	$-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Intrinsically safe parameters:

Permanently connected cable, wires (X1-1) – (X1-2):

$U_i = 29\text{V}$ $I_i = 107\text{mA}$ $P_i = 620\text{mW}$ L_i, C_i - negligible

Marking:

Ringbalance meter with 4-20mA loop powered transmitter type **RW 65 EX II**

(16) Report:

– Number LL/275/2016/A of 31.03.2016.

Ringbalance meter with 4-20mA loop powered transmitter type RW 65 EX II meets the requirements for devices with explosion proof design and may be used as a device of group II, category 1G/1D

(17) Special conditions for safe operation:

– undefined

(18) The compliance with Safety Requirements has been assured by compliance with standards shown in p.9 of this certificate.





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(19) List of agreed documentation:

- "Gerätebeschreibung RW_65_EX_II" nr 00-007-004, v1.0, 03.10.2016
- "Leiterplatte LPT_4_20mA_EX - PCB Loop Powered Transmitter" nr 00-007-001, v1.1, 02.04.2017
- Partlist "LPT_4_20mA (Loop Powered Transmitter)" nr 00-0007-002, v1.1, 02.04.2017
- "Betriebsanleitung RW65_EX_II – RW65 mit PCB Loop Powered Transmitter" nr 00-007-003, v1.0, 03.10.2016
- Schaltbild "4_20ma_EX_R3" nr RI-005-001-01, rev.01, 03.10.2016 (2 sheets)
- Layout "4_20ma_EX_R3" nr RI-00-006-01, rev.01, 25.09.2016
- Bestückungsplan "4_20mA_EX_R3_BEST" nr 00-006-002, ..., ...
- Komponentenstückliste "RW_65_II_KOMP" nr 00-007-005, ..., ...

