



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

(1) **EU-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) EU type examination certificate No: **OBAC 19 ATEX 0215X**

(4) Product: **Intrinsically safe power supply type PM02.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) 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/19/ATEX/0215.

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

EN 60079-11:2012

EN 60079-18:2015

EN 60079-31:2014

(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.



**Certification Body
Manager**

Piotr Tarnawski M. Com.

Gliwice, 20th December 2019



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(12)

SCHEDULE

(13)

to the EU-Type Examination Certificate
No. OBAC 19 ATEX 0215X

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

II 2G Ex eb mb [ib] IIC T4 Gb

PM02.EX-1-*

II 2D Ex tb [ib] IIIC T70°C Db

or

II (2)G [Ex ib Gb] IIC

PM02.EX-2-*

II (2)D [Ex ib Db] IIIC

(15) Ex Product description:

The PM02.EX-**-* power supply is equipped with intrinsically safe output circuits and is powered from the mains of the following voltage: 100÷240V AC. The power supply is an associated apparatus intended to be permanently fixed.

PM02.EX-1-*. power supply is intended for operation in hazardous area while PM02.EX-2-*. is intended for operation in safe area.

Marking:

Intrinsically safe power supply type **PM02.EX-**-***

place of installation: _____

- 1 - inside hazardous area
- 2 - outside hazardous area,
with intrinsically safe output circuits
which can enter the hazardous area

intrinsically safe output circuits cable: _____

- 1 - cable's wires terminated with ferrules
- 2 - cable terminated with M12 4P male plug





OBAC

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Rated data:

Nominal voltage	100÷240VAC, 50/60Hz
Nominal current	0,2A
Nominal power	15W
Degree of protection	IP66/IP68
Ambient temperature	-20°C ≤ T _a ≤ +40°C

Intrinsic safety related parameters:

AC input: U_m=253V

DC outputs:

circuit mark	U _o	I _o	P _o	C _o	L _o
V1	7.60V	600mA	3.8W	1μF	89μH
V2	7.14V	118mA	0.7W	2.1μF	200μH
V3	8.60V	87mA	0.64W	0.71μF	1mH
V4	11.55V	42mA	0.49W	0.68μF	0.5mH
V5	-11.55V	-42mA	0.49W	0.68μF	0.5mH

(16) Intrinsically safe power supply type PM02.EX-*-* meets the requirements for devices with explosion proof design and may be used as a device of group II, category 2G, 2D lub (2)G, (2)D.

(17) Special conditions for safe operation:

- WARNING - potential electrostatic charging hazard - see instructions.

(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:

- „Dokumentacja techniczna zasilacza PM02.EX” no. DT-OBC-PM02.EX-REV00, 06.2019.
- „PM02.EX intrinsically safe power supply”. User manual no. ITKU-117-01-11-19-EN, 11.2019.

