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[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment and protective systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU

[3] EU – type examination certificate (module B):

KDB 17ATEX0063X

issue 0

[4] Equipment :

**Intrinsically safe power supply
of PM01.EX-1, PM01.EX-2 type**

[5] Manufacturer:

RADWAG WAGI ELEKTRONICZNE Witold Lewandowski

[6] Address:

ul. Bracka 28, 26-600 Radom, POLAND

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate.

[8] Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU. The examination and test results are recorded in confidential report **KDB No. 17.110 [T-7462]**

[9] Compliance with the Essential Health and Safety Requirements has been met by compliance with:

**EN 60079-0:2012 + A11:2013; EN 60079-7:2015
EN 60079-11:2012; EN 60079-18:2015; EN 60079-31:2014**


[10] In case if the sign „X“ is placed after the certificate number, it indicates special conditions for safe use, specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the construction, evaluation and tests of product accordance with Directive 2014/34/EU. The certificate does not include other requirements of the Directive relating to manufacturing process and putting into the market of the equipment or protective device.

[12] Marking of the equipment :

 **II 2G Ex eb mb [ib] IIC T4 Gb** PM01.EX-1 type
II 2D Ex tb [ib] IIIC T60°C Db

OR

 **II (2)G [Ex ib Gb] IIC** PM01.EX-2 type
II (2)D [Ex ib Db] IIIC



KDBEX.eu

mgr inż. Piotr Maciej

ATEX Certification
Specialist



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(Certification Body-Certification Team-Kopalnia Doświadczalna "Barbara" Mikołów)
Certification Body accredited by PCA, Nr AC038

This certificate may be reproduced only in its entirety with schedule. The next issue of the certificate replaces the earlier editions.
Issue 0 is the initial certification. The document without signatures and seals is invalid.



[15] Description:

The PM01.EX-* power supply is a device intended to supply equipment installed in hazardous area.

Power supply's electronics is housed in a metal casing guaranteeing IP66/IP68 protection.

Power supply types:

- PM01.EX-1 - to be used in hazardous area.
- PM01.EX-2 - to be used outside hazardous area.

Intrinsically safe output circuits of the two power supply types guarantee "ib" type of protection.

Technical parameters:

ambient temperature range: -20°C to +40°C

ingress protection: IP66/IP68

power supply: Um=253V

intrinsic safety parameters:

Circuit symbol	Uo	Io	Po	Lumped values		Distributed values (cable)	
				Co	Lo	Co	Lo
V1 -> GND	7,60V	600mA	3,8W	1µF	89 µH	10 µF	89 µH
V2 -> GND	7,14V	118mA	0,7W	2,1µF	200 µH	13 µF	300 µH
V3 -> GND	8,60V	87mA	0,64W	0,71µF	1 mH	6,2 µF	3,1 mH
V4 -> GND	13,65V	42mA	0,52W	0,49µF	0,5 mH	0,7 µF	6,4 mH

[16] Test report:

„Sprawozdanie z oceny ATEX” (ATEX Assessment Report)
KDB No. 17.110.

[17] Special conditions for safe use:

- Caution - ELECTROSTATIC HAZARDS - read manual.
- Output parameters - details - read manual.
- Device with cable permanently connected - read manual.

[18] Essential health and safety requirements:

Met by compliance with standards listed below:

EN 60079-0:2012 + A11:2013; EN 60079-7:2015
EN 60079-11:2012; EN 60079-18:2015; EN 60079-31:2014

(PN-EN 60079-0:2013-03+A11:2014-03, PN-EN 60079-7:2016-02,
PN-EN 60079-11:2012, PN-EN 60079-18:2015-06, PN-EN 60079-31:2014-10)

Document's history:

- EU-Type Examination Certificate KDB 17ATEX0063X, **this document.**

