

(2)

Physical-Technical Testing Institute Ostrava - Radvanice



EU - Type Examination Certificate

Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 19 ATEX 0028X

(4) Product: Gas Detector type PW-044

(5) Manufacturer: Atest-Gaz A. M. Pachole sp.j.

(6) Address: ul. Spokojna 3, 44-109 Gliwice, Poland

- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

19/0028 dated 20.05.2019

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
- (11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

II 2G Ex db IIC T6...T4 Gb
II 2D Ex tb IIIC T130°C Db

This certificate is valid till:

31.05.2024 MCAL

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body Date of issue: 21.05.2019

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(15) Description of Product:

Gas Detector type PW-044 is intended for the detection, measurement and monitoring of hazardous gases in the atmosphere.

The detector consists of instrument housing with electronic unit type PWS-004-0 and three thread entries, bushing type PWS-045-0 and flameproof housing with electronic unit and integrated sinter type PWS-055-0 or flameproof housing with electronic unit and sinter type PWS-046-0. Unused entry can be blinded by housing type EM-183-0.

The instrument housing could optionally be equipped with display window. The separate parts are connected each other by thread. The cable entries shall be equipped by Ex - cable gland or Ex - blanking element in Ex-protection Ex db or Ex tb.

The measuring function according to Annex II paragraph 1.5.5 of the Directive 2014/34/EU is not matter of this EU-Type Examination Certificate.

(16) Report Number:

19/0028

(17) Specific Conditions of Use:

1. Max. power dissipation and ambient temperature for temperature class T6:

Tamb max for PWS-047-0 [°C]	Tamb max for PWS-057-0 [°C]	Pmax for PWS-004-0 (vertical position) Instrument housing type XD-I, XD-I Instrument housing type XD-SI, XD-SI	Pmax for one or two PWS-047-0/ PWS-057-0
45	31	15 W	3 W
55	41	8,25 W	1,75 W
67	53	3 W	0,5 W
65	51	1 W	1 W
64	50	0,2 W	1,15 W

2. Max. power dissipation and ambient temperature for temperature class T5:

Tamb max for PWS-047-0 [°C]	Tamb max for PWS-057-0 [°C]	Pmax for PWS-004-0 (vertical position) Instrument housing type XD-I, XD-I Instrument housing type XD-SI, XD-SI	Pmax for one or two PWS-047-0/ PWS-057-0
54	39	15 W	4 W
60	46	15 W	3 W
70	56	8,25 W	1,75 W
82	60	3 W	0,5 W
80	60	1 W	1 W
79	60	0,2 W	1,15 W

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body ASICAL-ITEMINATIVE STATES OF THE STATES OF T

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(17) Specific Conditions of Use: - continuation

3. Max. power dissipation and ambient temperature for temperature class T4:

Tamb max for PWS-047-0 [°C]	Tamb max for PWS-057-0 [°C]	Pmax for PWS-004-0 (vertical position) Instrument housing type XD-I, XD-I Instrument housing type XD-SI, XD-SI	Pmax for one or two PWS-047-0/ PWS-057-0
89	60	15 W	4 W
95	60	15 W	3 W
105	60	8,25 W	1,75 W
117	60	3 W	0,5 W
115	60	1 W	1 W
114	60	0,2 W	1,15 W

4. Minimum value of equipment service temperature:

	Ts min.		
Used sealing material	PWS-004-0		PWS-045-0
	Instrument housing type XD-I, XD-Iwin	Instrument housing type XD-SI, XD-SIwin	Cement joint material
Elastosil R701/40 - R701/80	-40°C	-40°C	
Tefablock TO SI 431 60A	-40°C		
FKM-VR1	-20°C	-20°C	
Resin CW1302GB/HY1300GB			-40°C
Copaltec ST 13			-40°C

- 5. In final installation the used Ex –cable glands and Ex- blanking elements have to satisfy type of ex-protection see marking and minimum IP protection IP6X;
- 6. The equipment must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
- (18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



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(19) Drawings and Documents:

Title:	Drawing number:	Revision
Gas detector PW-044-0 - schedule drawing	PW-044-0-001&CERT	R07
Gas detector PW-0440-0 - technical documentation	PW-044-0-002&CERT	R14
Gas detector PW-0440-0 - instructions	PW-044-0-003&CERT	R08
PWS-057-0 - schedule drawing	PWS-057-0-001&CERT	R01
Bushing - schedule drawing	PWS-045-0-001&CERT	R02
Sleeve - schedule drawing	EM-176-0-001&CERT	R01
CW1302GB/HY1300GB – data sheet	SCH_001-002&DOC	R03
CW1302GB/HY1300GB – low temperature declaration	SCH_001-003&DOC	R03
COPALTEC_ST 13 - polyurethane casting resin	SCH_015-001&DOC	R01
Flameproof housing with integrated sinter – schedule drawing	PWS-055-0-001&CERT	R01
Housing - schedule drawing	EM-170-0-001&CERT	R01
Protective shield EM-161-0- schedule drawing	EM-161-0-001&CERT	R01
PWS-047-0 - schedule drawing	PWS-047-0-001&CERT	R02
Flameproof housing - schedule drawing	PWS-046-0-001&CERT	R01
Housing space - schedule drawing	EM-160-0-001&CERT	R01
Sintered metal element	EM-G-SPI-001-0-001&CERT	R03
Support - schedule drawing	EM-026-0-001&CERT	R02
(XD-I, XD-Iwin, XD-SI, XD-SIwin) + PCB - schedule drawing	PWS-004-0-001&CERT	R07
PCB - schedule drawing	PWS-006-0-001&CERT	R02
EU-Type Examination Certificate Limatherm XD-I, XD-Iwin; FTZU 03 ATEX 0207U/8	CERT-010	R03
EC-Type Examination Certificate Limatherm XD-SI, XD-SIwin; FTZU 07 ATEX 0002U/3	CERT-011	R03
Flameproof housing - schedule drawing	EM-183-0-001&CERT	R01

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