

PE167/2

EU Declaration of Conformity

Manufacturer: **Pyropress Engineering,
Bell Close, Plympton, Plymouth, Devon, United Kingdom, PL7 4JH**

The manufacturer hereby declares that: -

Smart Temperature Transmitters PYRT-2000ALW, in all versions complies with directive:

- **EMC – 2004/108/WE**

The following standard was applied: - EN 61326-1:2009

Flameproof (Explosion-proof) versions.

Smart Temperature Transmitters PYRT-2000/ALW/D, in all versions complies with directive:

- **ATEX – 2014/34/EU**

Flameproof transmitters are marked as follows: -
II 1/2G Ex ia/d IIC T* Ga/Gb
II 1/2D Ex ia/t IIIC T* Da/Db
I M2 Ex d ia Mb

The EC Type Examination Certificate no. is: - **KDB 13ATEX0039X**

The certificate was issued by: - Central Mining Institute, ul. Podleska 72, 43-190 Mikołów, Poland

Harmonised standards applied: -

EN 60079-0:2009; EN 60079-1:2007; EN 60079-11:2012; EN 60079-26:2007; EN 60079-31:2009

This Declaration may only be used in its entirety & without change.

Modification of this equipment / product without prior approval from Pyropress Engineering will render this declaration null & void.

Responsible person: Ian Chapple (Technical and Quality Manager).

On behalf of, Pyropress Engineering

Signed:.....


Date: 28th April 2016



GIG



AC 038



KDB ATEX



Główny Instytut Górnictwa
Jednostka Certyfikująca
Zespół Certyfikacji WYROBÓW
KD „Barbara”
ul. Podleska 72
43-190 Mikołów,
tel. (+48) 32 3246550
fax. (+48) 32 3224931
www.gig.katowice.pl

This certificate and its
schedules may only be
reproduced in its entirety and
without change

Product certification program
no: PCW-ISO/IEC-1b
CODE ICS 13.230

[1] EC-TYPE EXAMINATION CERTIFICATE



[2] Equipment, protective systems and components intended for use in
potentially explosive atmospheres - Directive 94/9/EC

[3] EC – type examination certificate:

KDB 13ATEX0039X

[4] Equipment:

Smart Temperature Transmitter type PYRT-2000/ALW/D

[5] Manufacturer:

THE PYROPRESS ENGINEERING CO.LTD

[6] Address:

**Bell Close, Plympton, Plymouth. Devon PL7 4JH
United Kingdom**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this
certificate and the documents therein referred to.

[8] Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Article 9 of
Directive 94/9/EC of 23 March 1994, certifies that this equipment and 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.

The examination and test results are recorded in confidential report
KDB No. 13.042 [T-7011]

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

EN 60079-0:2009; EN 60079-1:2007;
EN 60079-11:2012; EN 60079-26:2007;
EN 60079-31:2009

[10] If the sign „X“ is placed after the certificate number, it indicates that the equipment or
protective system is subject to special conditions for safe use specified in the schedule to this
certificate.

[11] This EC-type examination certificate relates only to the design and construction of the
specified equipment and protective system in accordance with Directive 94/9/EC.
Further requirements of the Directive may apply to the manufacturing process and supply of
this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment shall include the following:



**I M2 Ex d ia I Mb
II 1/2G Ex ia/d IIC T* Ga/Gb
II 1/2D Ex ia/t IIIC T* Da/Db**

Specjalista ds. Certyfikacji
Urządzeń Przeciwwybuchowych

dr inż. Michał Górny



KIEROWNIK
Zespołu Certyfikacji WYROBÓW
KD "BARBARA" Mikołów
dr hab. inż. Krzysztof Cybulski, prof. GIG

Date of issue: 26.07.2013

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SCHEDULE

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EC-Type Examination Certificate KDB 13ATEX0039X

[15] Description:

The PYRT-2000/ALW/D Smart Temperature Transmitters are designed to measure temperatures in industrial installations. The transmitter consists of a housing, sensing probe with process connection, measuring sensor and electronic module converting the signal from measuring sensor into unified amplified output signal. The transmitter housing is a flameproof enclosure made of aluminium alloy with a baked epoxy paint finish or steel (316). The housing consists of a main enclosure, two electrical threaded entries and two screwed access covers (one of which is equipped with a glass window). Inside the enclosure is mounted electronics with galvanically separated intrinsically safe sensor circuit with a level of protection ia.

Marking:

I M2 Ex d ia I Mb (316 stainless steel enclosure)

II 1/2G Ex ia/d IIC T* Ga/Gb (aluminium alloy enclosure)

II 1/2D Ex ia/t IIIC T* Da/Db (aluminium alloy enclosure)

Marking T6 and T85°C applies to range $-40^{\circ}\text{C} < T_a \leq 45^{\circ}\text{C}$.

Marking T5 and T100°C applies to range $-40^{\circ}\text{C} < T_a \leq 75^{\circ}\text{C}$.

Technical parameters:

Power supply	13,5 ÷ 45 VDC
Measuring range	-200°C ÷ +550°C for sensor Pt100 -40°C ÷ +550°C for sensor Ni-Cr-Ni/K
Degree of protection	IP67/66
Output Signac	4 ÷ 20 mA

[16] Test report:

Sprawozdanie KDB Nr 13.042



SCHEDULE

EC-Type Examination Certificate KDB 13ATEX0039X

[17] Special conditions for safe use:

- For some flameproof joints clearances are smaller and the length is larger than specified in EN 60079-1:2007. The values of these clearances and lengths are given in the instruction manual;
- Temperature class transmitter (T^* for gas) or the maximum surface temperature (T^* for dust) depends mainly on the process temperature (temperature-controlled medium) and methods of installation on site. Accordingly, the temperature T_p the most hot place on the surface of the transducer housing (virtually cover the sensor) having contact with the explosive atmosphere in conditions of installation on site be determined and follow the instructions in DTR.PYRT.ALW.02.

[18] Essential health and safety requirements:

Met by compliance with standards listed below:

- EN 60079-0:2009; (PN-EN 60079-0:2009);
- EN 60079-1:2007; (PN-EN 60079-1:2010);
- EN 60079-11:2012; (PN-EN 60079-11:2012);
- EN 60079-26:2007; (PN-EN 60079-26:2007);
- EN 60079-31:2009; (PN-EN 60079-31:2011);

