GIG

PCA
POLSKIE CENTRUM AKREDYTACJI
CERTYFIKACJA WYROBÓW
AC 038

INTERNATIONAL IAF ACCREDITATION FORUM

KDB 14ATEX

Główny Instytut Górnictwa
Jednostka Certyfikująca
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'roduct 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 14ATEX0005X

[4] Equipment:

Smart Temperature Transmitter type DPT-2000ALW

[5] Manufacturer:

DELTA CONTROLS LTD.

[6] Address:

Island Farm Avenue, West Molesey,
Surrey KT8 2UZ, 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. 14.006 [T-7124]

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

EN 60079-0:2012; 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

or

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

Główny Instytut Górnictwa w Katowicach
Jednostka Certyfikująca
Zespół Certyfikacji Wyrobów KD "Barbara" Mikołów

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

Date of issue: 23.01.2014

13 # SCHEDULE

14 **EC-Type Examination Certificate KDB 14ATEX0005X**

[15] **Description:**

The DPT-2000ALW 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:

version with steel enclosure:

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

version with aluminium alloy enclosure:

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

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 14.006

Główny Instytut Górnictwa w Katowicach
Jednostka Certyfikująca
Zespół Certyfikacji Wyrobów KD "Barbara"

SCHEDULE

EC-Type Examination Certificate KDB 14ATEX0005X

[17] **Special conditions for safe use:**

- 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 Tp of the hottest place on the transmitter housing surface (which is actually the cover of the sensor), which has the contact with the explosive atmosphere in conditions of installation on site, has to be determined and one should follow the present instructions.
- The permitted gap of flameproof cylindrical joint, marked in the documentation as L4, is smaller than the one specified in EN 60079-1:2007 and shall not exceed the values specified in the manufacturer's instructions.

[18] **Essential health and safety requirements:**
Met by compliance with standards listed below:

EN 60079-0:2012 *(PN-EN 60079-0:2013)*;
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)*;