[1]

SUPPLEMENT No 4
to EC-TYPE EXAMINATION CERTIFICATE
KDB 07ATEX055X

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

[3] Equipment and protective system:

Temperature sensors: head sensors, cable sensors, ambient temperature sensors and high-temperature sensors.

[4] Manufacturer:

Limatherm Sensor Sp z o. o

[5] Address:

ul. Tarnowska 1, 34-600 Limanowa, Poland

[6] Changes were introduced to design or construction of component in accordance with the specification set out in the Schedule attached to this certificate and the documents therein referred to.

This document shall be held with the original Certificate.

The examination and test results are recorded in confidential report KDB No. 09.179-3 [T-5940]

[7] Marking:

Ex I M1 Ex ia I	or
Ex I M1 Ex ia I	or
Ex II 1/2 G Ex ia IIC T6*	or
Ex II 2 G Ex ia IIA T6*	or
Ex II 1D Ex iaD 20 T85°C*	

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

EN 60079-0:2012 + A11:2013	*(PN-EN 60079-0:2013-03 + A11:2014-03)*
EN 60079-11:2012	*(PN-EN 60079-11:2012)*
EN 50303:2000	*(PN-EN 50303:2004)*
EN 60079-26:2007	*(PN-EN 60079-26:2007)*

[9] The marking will change to:

Ex I M1 Ex ia I Ma	or
Ex II 1/2G Ex ia IIC T6-T1 Ga/Gb	or
Ex II 2G Ex ia IIC T6-T1 Gb	or
Ex II 1D Ex ia IIIC T85°C Da	or
Ex II 2G Ex ia IIB T6-T1 Gb	

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

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

AC 038

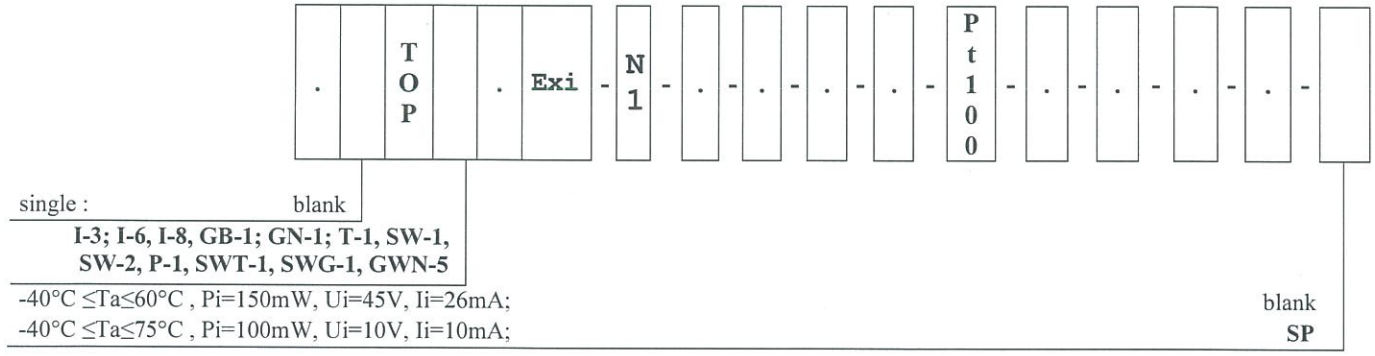
[10] # SCHEDULE

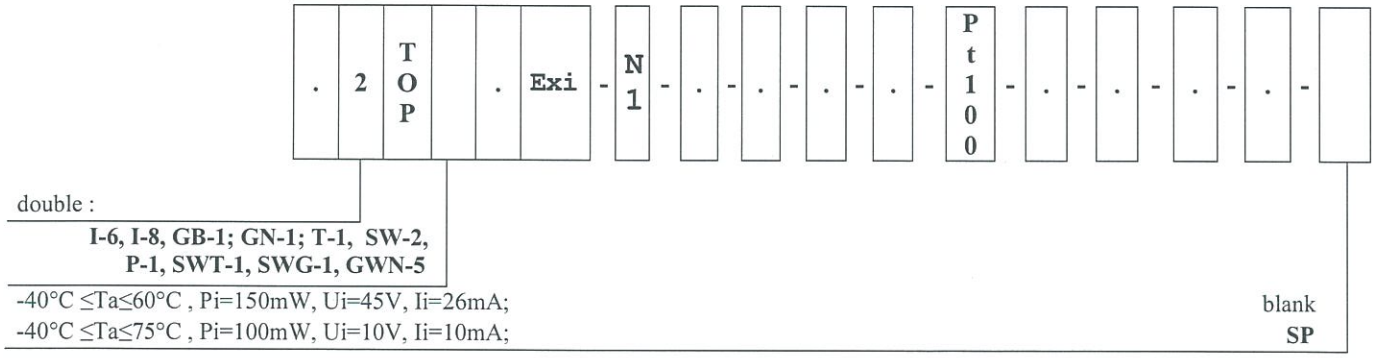
[11] **Supplement no 4 to EC-Type Examination Certificate KDB 07ATEX055X**

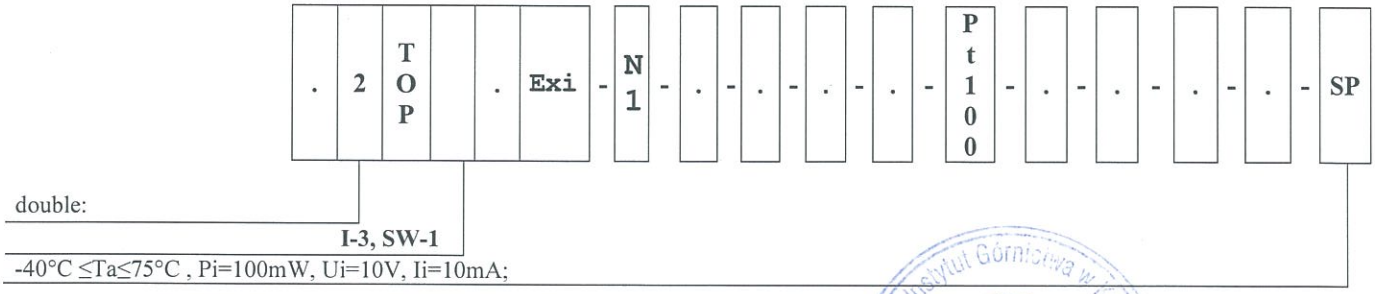
[12] **Description of the variation to the equipment or protective system:**

Manufacturer adapted the device to requirements of the standards specified in point 8 hereto, updated the technical documentation.
The thermocouple sensors parameters not changed.
Was introduced special conditions for safe use as well as for a bottom listed thermometric resistors electrical parameters was updated.

- **head sensors:** I M1 Ex ia I Ma







[10] # SCHEDULE

[11] **Supplement no 4 to EC-Type Examination Certificate KDB 07ATEX055X**

[12] **Description of the variation to the equipment or protective system:**

- **ambient temperature sensors:** II 2G Ex ia IIC T6-T1 Gb
  II 1D Ex ia IIIC T85°C Da

. | TOPZ-842 | - | Exi | - | . | - | . | - | . | - | . | - | . | - | . | - |

-40°C ≤Ta≤60°C , Pi=150mW, Ui=45V, Ii=26mA;
-40°C ≤Ta≤75°C , Pi=100mW, Ui=10V, Ii=10mA;

blank
SP

- **head sensors:** II 1/2G Ex ia IIC T6-T1 Ga/Gb
  II 1D Ex ia IIIC T85°C Da

. | | TOP | | . | Exi | - | . | - | . | - | . | - | . | - | . | - | Pt100 | - | . | - | . | - | . | - | . | - |

single: bez oznaczenia
GB-1; GN-1; T-1, SW-1, SW-2, P-1, SWT-1, SWG-1, GWN-5

-40°C ≤Ta≤60°C , Pi=150mW, Ui=45V, Ii=26mA;
-40°C ≤Ta≤75°C , Pi=100mW, Ui=10V, Ii=10mA;

blank
SP

. | 2 | TOP | | . | Exi | - | . | - | . | - | . | - | . | - | . | - | Pt100 | - | . | - | . | - | . | - | . | - |

double:
GB-1; GN-1; T-1, SW-2, P-1, SWT-1, SWG-1, GWN-5

-40°C ≤Ta≤60°C , Pi=150mW, Ui=45V, Ii=26mA;
-40°C ≤Ta≤75°C , Pi=100mW, Ui=10V, Ii=10mA;

blank
SP

. | 2 | TOP | | . | Exi | - | . | - | . | - | . | - | . | - | . | - | Pt100 | - | . | - | . | - | . | - | . | - | SP

double :
SW-1

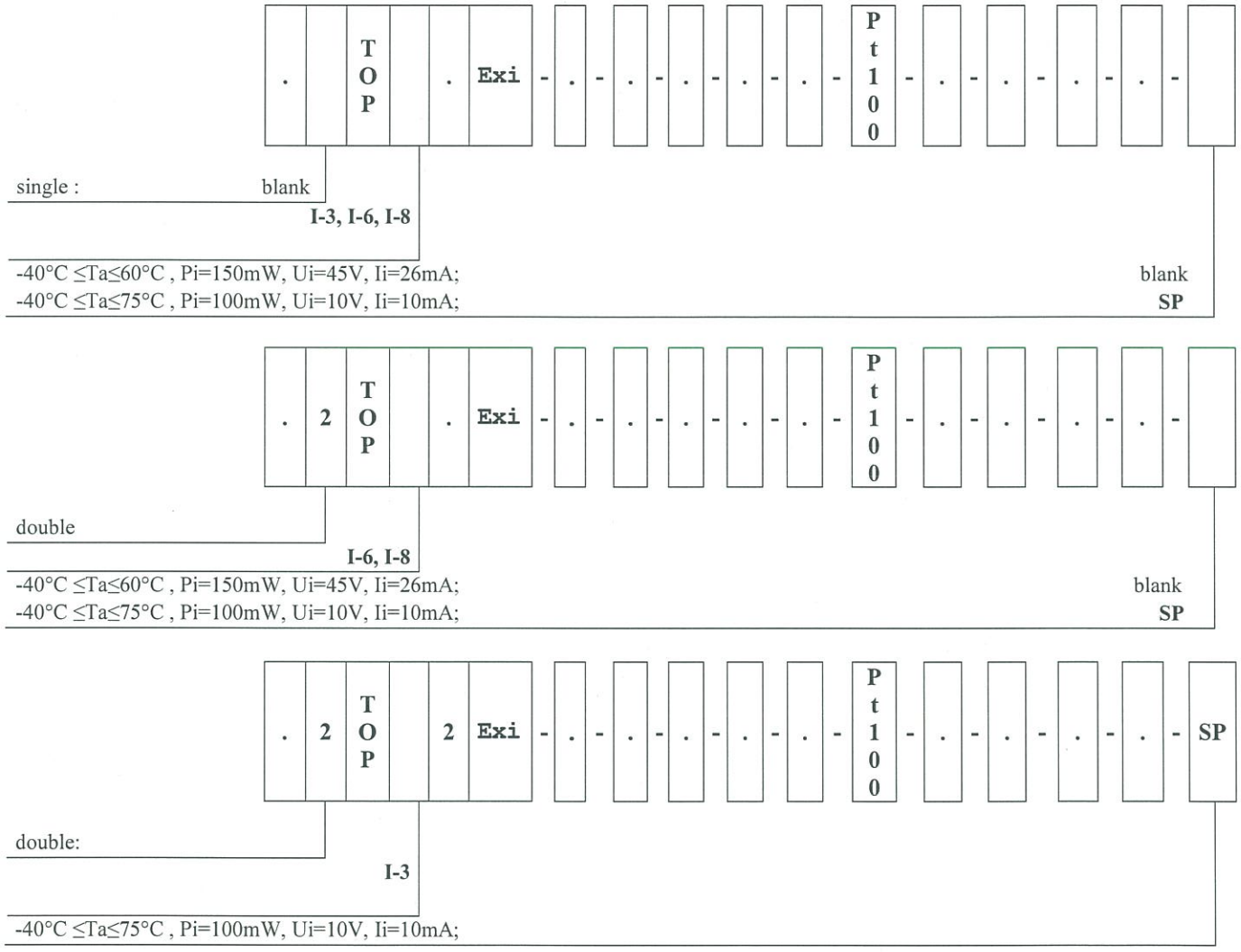
-40°C ≤Ta≤75°C , Pi=100mW, Ui=10V, Ii=10mA;

[10] # SCHEDULE

[11] **Supplement no 4 to EC-Type Examination Certificate KDB 07ATEX055X**

[12] **Description of the variation to the equipment or protective system:**

- **head sensors:** II 2G Ex ia IIC T6-T1 Gb
  II 1D Ex ia IIIC T85°C Da

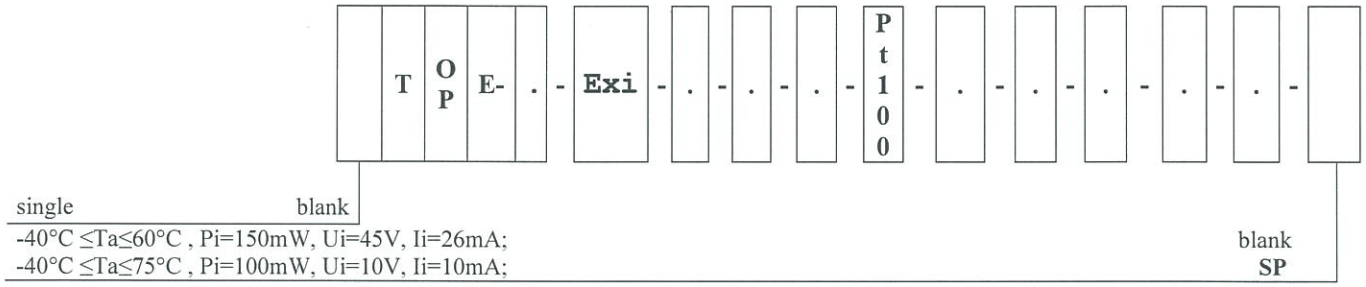


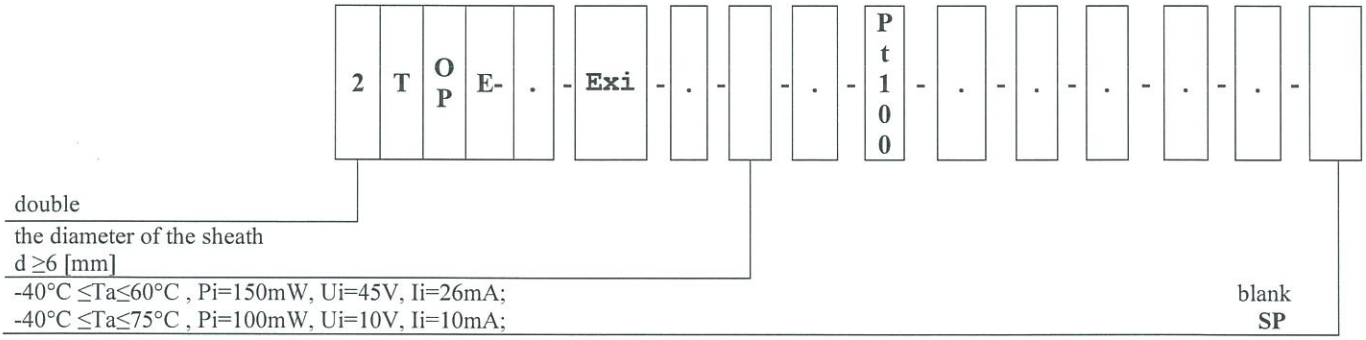
[10] # SCHEDULE

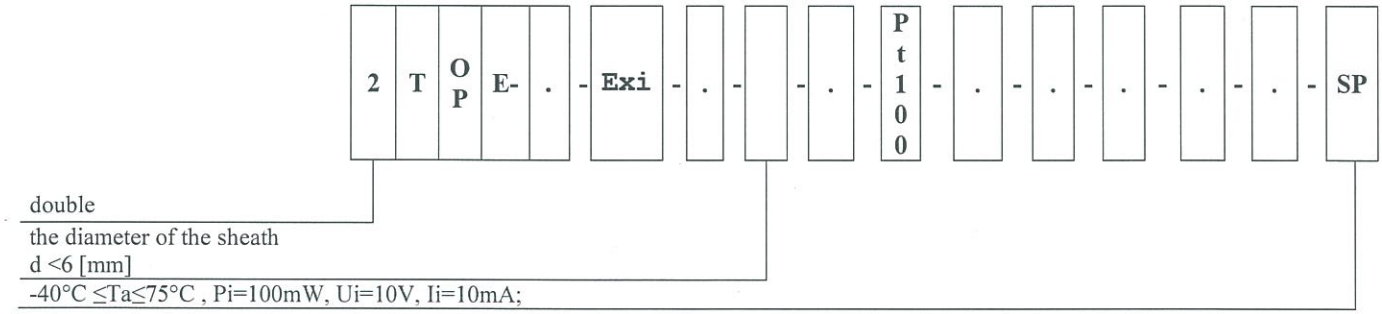
[11] **Supplement no 4 to EC-Type Examination Certificate KDB 07ATEX055X**

[12] **Description of the variation to the equipment or protective system:**

- **cable sensors:** II 2G Ex ia IIC T6-T1 Gb
  II 1D Ex ia IIIC T85°C Da







.	Marking according with p.[15] EC-TYPE EXAMINATION CERTIFICATE KDB 07ATEX055 and datasheets.

[10] # SCHEDULE

[11] **Supplement no 4 to EC-Type Examination Certificate KDB 07ATEX055X**

[12] **Description of the variation to the equipment or protective system:**

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

- Temperature class of a sensor depends on the measured temperature. After mounting, it should be checked if temperature of any part doesn't exceed acceptable limits for potentially explosive atmosphere, materials and devices.
- Circuits temperature sensors with double measurement elements should be considered as electrically connected.