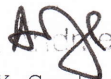




- [1] **EU TYPE EXAMINATION CERTIFICATE**
- [2] Protective equipment and systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817)
- [3] EU type examination certificate (module B):  
**KDB 19ATEX0030X** **0 edition**
- [4] Equipment:  
**Pressure transmitters type D22, D23**  
**Differential pressure transmitters type: D32, D33**
- [5] Manufacturer:  
**DELTA MOBREY LTD**
- [6] Address:  
**Riverside Business Park, Dogflud Way, Farnham, Surrey,**  
**GU9 7SS - UK, United Kingdom**
- [7] The protective equipment or system and any acceptable variations thereto are specified in the schedule to this certificate.
- [8] Central Mining Institute, Notified Body no 1453 according to Directive 2014/34/EU of February 26, 2014, approves that the protective equipment or system specified in this certificate has been found to comply with the essential health and safety requirements for the design and construction of protective equipment and systems intended for use in potentially explosive atmosphere given in Annex II to Directive 2014/34 /EU (Załącznik nr 2 Rozporządzenia Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The results of the assessment and examinations as well as the list of agreed documentation are recorded in the confidential Report **KDB No 19.044 [T-7592]**
- [9] The essential health and safety requirements have been met by compliance with the requirements of the following standards:  
**EN 60079-0: 2012 + A11:2013; EN 60079-1:2014;**  
**EN 60079-31:2014**
- [10] If sign "X" is placed after the certificate number, this means the specific conditions of use set out in the schedule to this certificate.
- [11] This EU type examination certificate relates only to the construction, assessment and testing of the specified product in accordance with Directive 2014/34 /EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The certificate shall not cover the remaining requirements of the Directive regarding the manufacturing process and placing the protective equipment or system on the market.
- [12] The marking of the equipment shall include the following:



**II 2G Ex db IIC T6/T5/T4 Gb**  
**II 2D Ex tb IIIC T85°C/T100°C/T120°C Db**

inż.  Trębaczewski  
ATEX Certification  
Expert



**Główny Instytut Górnictwa**  
**Jednostka Oceny Zgodności**  
**KIEROWNIK**  
**Zespołu ds. Certyfikacji**  
**mgr inż. Grzegorz Drabik**

Date of issue: **31.07.2019**

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Central Mining Institute, 40-166 Katowice, Plac Gwarków 1, Poland, www.gig.eu  
Conformity Assessment Body, 43-190 Mikołów, ul. Podleska 72, www.gigcert.com  
Certification Body accredited by PCA [Polish Centre for Accreditation], No AC038.

This certificate may only be reproduced in its entirety together with schedules. The document without signatures and stamps shall be not valid.

PC-ATEX-01/ExXen ed.1, 03.2019



**KDBEX**



**[15] Description:**

The pressure transmitters type D22 and D23 are designed to measure gauge pressure, vacuum pressure and absolute pressure of gases, vapours and liquids (including corrosive).

The differential pressure transmitters type D32 and D33 are used to measure liquid levels in closed tanks, and to measure differential pressure at filters, orifices and others. The differential pressure transmitters with P-type connectors are designed to work with static pressure of up to 4MPa only.

The pressure transmitters and differential pressure transmitters can be fitted with a range of additional process connectors, enabling them to be used in a conditions variety, such as dense media, reactive media, high and low temperature.

The basic elements of the transmitters construction are:

- measuring head in which a pressure signal is converted into an electric signal;
- electronic unit that converts the measuring head signal into a unified transmission signal;
- housing;
- SGM or FL type Exd electrical connection, with external metric thread M20x1,5 or conical thread 1/2 "NPT, where:
  - SGM - the electrical connection of the transmitter with a hermetically sealed power cord in a polyurethane sheath
  - FL - the electrical connection of the transmitter with hermetically sealed power wires with PVC insulation.

The casing of the transmitter, is made of Ø27mm pipe and connected to the measuring head and electrical connection in an inseparable way.

**Technical parameters:**

**For transmitters with FL connection  
with wires LgYc type (manufactured by Technokabel):**

**Variant I:**

Maximum ambient temperature:  $T_a \leq +70^\circ\text{C}$   
Maximum process temperature:  $70^\circ\text{C}$

**Marking:**

Temperature class: **T6**  
Maximum surface temperature: **T85°C**



[13]  
[14]

**SCHEDULE**  
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**Variant II:**

Maximum ambient temperature:  $T_a \leq +80^\circ\text{C}$   
Maximum process temperature:  $85^\circ\text{C}$

**Marking:**

Temperature class:: **T5**  
Maximum surface temperature: **T100°C**

**Variant III:**

Maximum ambient temperature:  $T_a \leq +80^\circ\text{C}$   
Maximum process temperature:  $115^\circ\text{C}$

**Marking:**

Temperature class:: **T4**  
Maximum surface temperature: **T120°C**

**For transmitters with SGM connection  
with cable LiYwC11Y type (manufactured by Technokabel):**

**Variant I:**

Maximum ambient temperature:  $T_a \leq +65^\circ\text{C}$   
Maximum process temperature:  $75^\circ\text{C}$

**Marking:**

Temperature class:: **T6**  
Maximum surface temperature: **T85°C**

**Variant II:**

Maximum ambient temperature:  $T_a \leq +65^\circ\text{C}$   
Maximum process temperature:  $105^\circ\text{C}$

**Marking:**

Temperature class: **T5**  
Maximum surface temperature: **T100°C**

**Note! See specific conditions of use.**

**For all variants of implementation:**

Minimum ambient temperature:  
For differential pressure transmitters:  $-25^\circ\text{C} \leq T_a$   
For pressure transmitters:  $-40^\circ\text{C} \leq T_a$



[13]  
[14]

**SCHEDULE**  
EU type examination certificate  
**KDB 19ATEX0030X 0 edition**



Transmitter type	Maximum power supply voltage	Output signal
D22, D32	30V DC	4÷20mA
D23, D33	30V DC	4÷20mA + Hart

Maximum power supply of the transmitter: 1W  
Ingress protection: ≥ IP 66

**[16] Test Report:**

"ATEX assessment report" KDB No 19.044

**[17] Special conditions of use:**

- Transmitters with LiYwC11Y type cable (manufactured by Technokabel), used at an ambient temperature of  $T_a = 65^{\circ}\text{C}$  and process temperature  $105^{\circ}\text{C}$ , must be installed in a horizontal position in such a way that the temperature above the process connection does not exceed  $100^{\circ}\text{C}$ .
- If transmitters for Group III contain:
  - a) the nameplate made of plastic,
  - b) diaphragm seals covered by PTFE,they should be installed in a way that prevents electrostatic charging, according to the instruction manual.
- External parts made of plastic should be cleaned with a damp cloth, with the addition of antistatic fluids.
- The diaphragm should not be subject on damage during installation and exploitation of the transmitter. The transmitter diaphragm is made of stainless steel or Hastelloy alloy and must not be exposed to medium that could cause its damage.

**[18] Essential health and safety requirements:**

Met by fulfilling the requirements of the following standards:  
EN 60079-0:2012 + A11:2013 (PN-EN 60079-0:2013-03 + A11:2014-03);  
EN 60079-1:2014 (PN-EN 60079-1:2014-12);  
EN 60079-31:2014 (PN-EN 60079-31:2014-10);

**Document history:**

- EU type examination certificate KDB 19ATEX0030X, 0 edition of 31.07.2019, initial certification

