



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx KDB 19.0005X

Issue No: 0

Certificate history:

Issue No. 0 (2019-07-31)

Status: **Current**

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Date of Issue: **2019-07-31**

Applicant: **DELTA MOBREY LTD**  
Riverside Business Park, Dogflud Way, Farnham, Surrey,  
GU9 7SS – UK  
United Kingdom

Equipment: **Pressure transmitters type D22, D23. Differential pressure transmitters type: D32, D33.**

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Dust protection by enclosure "t"**

Marking:

Ex db IIC T6/T5/T4 Gb

Ex tb IIIC T85°C/T100°C/T120°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

mgr inż. Piotr Madej

Position:

Head of ExCB

Signature:  
(for printed version)

Date:

31.07.2019

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Główny Instytut Górnictwa, Kopalnia Doświadczalna "BARBARA"  
(Central Mining Institute Experimental Mine "Barbara")  
ul. Podleska 72  
43-190 Mikołów  
Poland





# IECEX Certificate of Conformity

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Manufacturer: **DELTA MOBREY LTD**  
Riverside Business Park, Dogflud Way, Farnham, Surrey,  
GU9 7SS – UK  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- |   |  |
|---|--|
| <b>IEC 60079-0 : 2017</b><br>Edition:7.0    | Explosive atmospheres - Part 0: Equipment - General requirements                     |
| <b>IEC 60079-1 : 2014-06</b><br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2013</b><br>Edition:2     | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[PL/KDB/ExTR19.0005/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0033/08](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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:
  - o SGM - the electrical connection of the transmitter with a hermetically sealed power cord in a polyurethane sheath
  - o 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.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.

### Annex:

[CoC\\_KDB\\_19\\_0005X\\_00\\_Attachment.pdf](#)



### Data Sheet

Manufacturer: DELTA MOBREY LTD  
Riverside Business Park, Dogflud Way, Farnham, Surrey,  
GU9 7SS – UK, United Kingdom

Equipment: Pressure transmitters type D22, D23  
Differential pressure transmitters type: D32, D33

#### Technical safe 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:  $T85^\circ\text{C}$

**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:  $T100^\circ\text{C}$

**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:  $T120^\circ\text{C}$

**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:  $T85^\circ\text{C}$

**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:  $T100^\circ\text{C}$

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:  $-40^\circ\text{C} \leq T_a$

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:  $\geq \text{IP } 66$