**Physical-Technical Testing Institute**
**Ostrava - Radvanice**

(1) # EU - Type Examination Certificate

(2) **Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

## FTZÚ 19 ATEX 0112X

(4) Product: **Pressure transmitter type D22, Differential pressure transmitter type D32, Hydrostatic level probe type D41**

(5) Manufacturer: **Delta Mobrey Ltd**

(6) Address: **Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS, UK**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

**19/0112 dated 18.10.2019**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 50303:2000**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

**I M1 Ex ia I Ma**

**II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb**

**II 1D Ex ia IIIC T110°C Da**

**II 1/2G Ex ia IIC T4 Ga/Gb** – (for transmitters with connection ALW, ALM)

This certificate is valid till: **04.04.2023**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV NB 1026

Date of issue: 18.10.2019





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(13) **Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 19 ATEX 0112X**

(15) Description of Product:

The device is used as a pressure transmitter (D22), or differential pressure transmitter (D32), or hydrostatic level probe (D41). The device converts non electrical process variable, which is pressure, into electrical 4...20mA output signal.
The device is equipped by various connections, PK, PD, PKM, PKD, SG, SGM, PM12, PZ, ALW, ALM. Transmitters with electrical connection ALW, ALM are equipped with LCD display enclosed in light alloy housing with PM12 or PD connector. Transmitters with electrical connection PKD, PM12 and ALW, ALM equipped with PM12 connector are allowed only to hazardous gas explosive atmospheres (Group II). Transmitters with ALM or ALW connection with connector PD are allowed for gas and dust hazardous explosive atmospheres (Group II and Group III).

Ambient temperature Ta: -40°C to $Tamb_{max}$

| Pi [W] | $Tamb_{max}$ [°C] | Temperature class, Group |
|---|---|---|
| 0,7 | +45 | T6 |
| | +80 | T5, T4, Group I, Group III - 110°C |
| 1,2 | +75 | T5 |
| | +80 | T4, Group I, GroupIII-110°C |

Intrinsically safe parameters

In case of power supply with linear output characteristic:
Ui=28VDC, Ii=0,1A, Pi=0,7W, Ci=25nF+cable capacitance*, Li=0,4mH+cable inductivity*

In case of power supply with trapezoidal or rectangular output characteristic:
Ui=24VDC, Ii=0,1A, Pi=1,2W, Ci=25nF+cable capacitance*, Li=0,4mH+cable inductivity*

* - concerns versions with PK(M) and SG(M) connectors; cable parameters C=200pF/m, L=1μH/m

(16) Report Number.: 19/0112

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

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(13) **Schedule**

# (14) EU - Type Examination Certificate No. FTZÚ 19 ATEX 0112X

(17) Specific Conditions of Use:

1. Ambient temperature range – see Instruction manual and marking label.
2. Process temperature (medium) at the diaphragm of the transmitter must be in range of ambient temperature.
3. In case of use the transmitter in dust atmosphere, supplying voltage could occur on transmitter enclosure. It should be taken into consideration during transmitter installation.
4. In case of use titan parts in diaphragm seal, during installation and operation of the device the diaphragm seal should be protected against mechanical impact.
5. Version of the transmitter with surge arrester, marked on the plate "Version SA", does not meet the requirements of Section 6.3.13 of EN 60079-11:2012 (test of isolation 500VAC). This must be taken into account during the installation of transmitters.
6. Transmitters with display (with electrical connections ALW, ALM) and with diaphragm seals covered by PTFE, for Group III, should be installed in a place and in a way that prevents electrostatic charging.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

| Title / Drawing No. | Sheets: | Date: | Nr. of Pages: |
|---|---|---|---|
| D22-C152-TA | 1A | 08.2019 | 1 |
| IOM-D22-D32-D41 | 1..36 | 08.2019 | 36 |

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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