



(1) **Supplementary EU - Type Examination Certificate No.1**

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

(3) EU - Type Examination Certificate number:

**FTZÚ 20 ATEX 0028X**

(4) Product: **Smart Temperature Transmitter type D72**

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

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

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 20 ATEX 0028X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached 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, as modified by this supplementary certificate, 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.

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

**EN IEC 60079-0:2018, 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) The marking of the product shall include the following:

|   |   |                                   |
|---|---|-----------------------------------|
|  | <b>II 1/2G Ex ia IIC T6/T5/T4 Ga/Gb</b>       | only version with producer sensor |
|   | <b>II 2(1)G Ex ia [ia Ga] IIC T6/T5/T4 Gb</b> | only version with user sensor     |
|   | <b>I M1 Ex ia I Ma</b>                        | only version with enclosure ss316 |
|   | <b>II 1D Ex ia IIIC T115°C Da</b>             |                                   |

(12) This certificate is valid till: **31.07.2027**

Responsible person:

*v z. Jgan*

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 15.07.2022

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# EU - Type Examination Certificate

- (1)
- (2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 20 ATEX 0028X**

- (4) Product: **Smart Temperature Transmitter type D72**
- (5) Manufacturer: **Delta Mobrey Limited**
- (6) Address: **Riverside Business Park, Dogflud Way, Farnham, GU9 7SS, United Kingdom**

(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:

**20/0028 dated 11.05.2020**

(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.

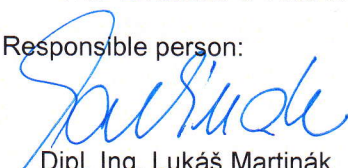
(12) The marking of the product shall include the following:

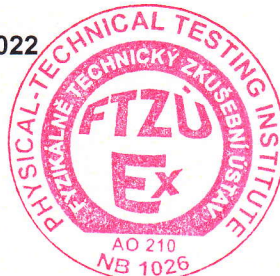
 **II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb**  
**II 2(1)G Ex ia [ia Ga] IIC T4/T5/T6 Gb**  
**I M1 Ex ia I Ma**  
**II 1D Ex ia IIIC T105°C Da**

version with integral sensor  
version without integral sensor  
version with enclosure ss316

This certificate is valid till: **14.07.2022**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 11.05.2020

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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 20 ATEX 0028X**

(15) Description of Product:

The Smart Temperature Transmitter type D72 is designed to convert temperature signal into an electrical signal. The apparatus comprises several printed circuit boards and LCD, all housed in a metal enclosure which can be made of light alloy for group II applications but only of stainless steel for mine (group I) application. One of the housing cover contains a glass window if the transmitter is fitted with a display.

The product is made in two versions, Smart Temperature Transmitter with integral sensor and Smart Temperature Transmitter without integral sensor.

External connections are made via integral terminals and cable glands which must be of certified type if they are mounted on the version for combustible dust hazard application.

The transmitters intended as group II 1/2G equipment shall be installed into the partition between the hazardous areas of category 1G and 2G.

Temperature classes T4, T5 or T6 depend on the input power and maximum ambient temperature – see below.

**Input parameters:**

- a) supply from a power source with linear output characteristic:  
 $U_i = 30 \text{ V}$ ;  $I_i = 0.1 \text{ A}$ ;  $C_i = 2.5 \text{ nF}$ ;  $L_i = 18 \text{ } \mu\text{H}$ ;  $P_i = 0.75 \text{ W}$ ;  $T_a \leq 80^\circ\text{C}$  & T4;  $T_a \leq 70^\circ\text{C}$  & T5;  
 $P_i = 0.5 \text{ W}$ ;  $T_a \leq 40^\circ\text{C}$  & T6;  
 $T_m > T_a$  &  $T^*$ ,  $T^{**}$  according to IOM-D72-B
- b) supply from a power source with trapezoidal output characteristic:  
 $U_i = 24 \text{ V}$ ;  $U_o = 48 \text{ V}$ ;  $I_i = 50 \text{ mA}$ ;  $C_i = 2.5 \text{ nF}$ ;  $L_i = 18 \text{ } \mu\text{H}$ ;  $P_i = 0.6 \text{ W}$ ;  $T_a \leq 80^\circ\text{C}$  & T5;  
 $P_i = 0.5 \text{ W}$ ;  $T_a \leq 40^\circ\text{C}$  & T6;  
 $T_m > T_a$  &  $T^*$ ,  $T^{**}$  according to IOM-D72-B
- c) supply from a power source with rectangular output characteristic:  
 $U_i = 24 \text{ V}$ ;  $I_i = 25 \text{ mA}$ ;  $P_i = 0.6 \text{ W}$ ;  $C_i = 2.5 \text{ nF}$ ;  $L_i = 18 \text{ } \mu\text{H}$ ;  $T_a \leq 80^\circ\text{C}$  & T5,  
 $T_m > T_a$  &  $T^*$ ,  $T^{**}$  according to IOM-D72-B

$T_m$  - medium temperature

$T^*$  - maximum surface temperature

$T^{**}$  - temperature class

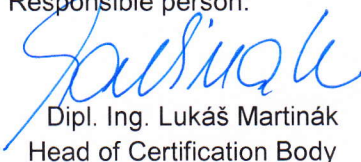
**Output parameters:**

$U_o = 6.6 \text{ V}$ ;  $I_o = 9.8 \text{ mA}$ ;  $P_o = 16.2 \text{ mW}$ ;  $L_o = 400 \text{ mH}$   
 $C_o = 1000 \text{ } \mu\text{F}$  for IIA;  $C_o = 480 \text{ } \mu\text{F}$  for IIB;  $C_o = 3.5 \text{ } \mu\text{F}$  for IIC

Degree of protection: IP 65, IP 66/67

Minimum of ambient temperature:  $T_a = -40^\circ\text{C}$

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 11.05.2020

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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 20 ATEX 0028X**

(16) Report Number.: 20/0028

(17) Specific Conditions of Use:

1. The operating instructions must be taken into account during installation.
2. Versions of transmitter with surge arrester marked on plate "SA", do not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500Vrms). This must be taken into account when installing the equipment.
3. Under certain extreme circumstances in dust explosive atmospheres, the device with painting of aluminum enclosure and with plastic plate may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
4. For the medium temperature  $T_m > T_a$  temperature class  $T^{**}$  and the maximum surface temperature  $T^*$  should be set according to the current manual.

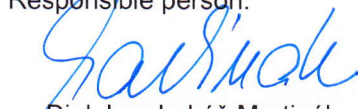
(18) Essential Health and Safety Requirements:

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: |
|---------------------|---------|---------|---------------|
| D72-C001-TA         | 1, 2    | 02.2020 | 2             |
| IOM-D72-B           | 1..41   | 08.2019 | 41            |

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 11.05.2020

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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 20 ATEX 0028X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.
- Modification of apparatus marking.
- Evaluation according to the newest standards.
- Extension of certificate validity.

This supplementary certificate describes changes of the Product:

- Mechanical modification of metal enclosure, added the third thread hole, identical with current thread holes.
- Updating of documentation.
- The surface temperature in dust explosive atmosphere is changed to T115°C.  
Formerly marking  $\text{Ex}$  II 1D Ex ia IIIC T105°C Da is changed to  $\text{Ex}$  II 1D Ex ia IIIC T115°C Da.
- There are minor change in used electrical components and mechanical parts.

Technical and intrinsically safe parameters remain without changes.

(16) Report Number: 20/0028/1

(17) Specific Conditions of Use:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

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

(19) Drawings and Documents:

| Number       | Sheets  | Date    | Description   |
|--------------|---------|---------|---------------|
| IOM-D72-EX E | 28      | 06.2022 | User manual   |
| D72-C001-TA  | 1A,2A,3 | 07.2022 | Marking label |

Responsible person:

*v z. Jgr*

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 15.07.2022

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