



EU - Type Examination Certificate

- (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 17 ATEX 0112X

- (4) Product: **Series/3400 Smart Pressure Transmitters,
Series/3500 Smart Differential Pressure Transmitters**
- (5) Manufacturer: **DWYER INSTRUMENTS INC.**
- (6) Address: **102 Indiana Highway 212, Michigan City, Indiana 46360, USA**

- (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:

17/0112 dated 21.11.2017

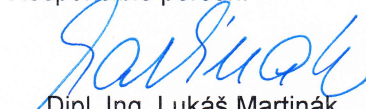
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-11:2012
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule 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 Ga/Gb**

 **II 1D Ex ia IIIC T105°C Da**

This certificate is valid till: **31.01.2022**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 21.11.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 17 ATEX 0112X**

(15) Description of Product:

The products Series/3400 Smart Pressure Transmitters and Series/3500 Smart Differential Pressure Transmitters are designed to convert process pressure measurements into a 4 to 20 mA current signal. The apparatus comprises a sensor, several printed circuit boards and liquid crystal display, all housed in a light alloy enclosure. External connections are made via an integral terminal block.

Intrinsically safe input power supply parameters:

Linear power supply output characteristic:

$U_i = 30 \text{ V}$; $I_i = 0.1 \text{ A}$; $P_i = 0.75 \text{ W}$; temperature class T5

Trapezoidal power supply output characteristic:

$U_i = 24 \text{ V}$; $I_i = 50 \text{ mA}$; $P_i = 0.7 \text{ W}$; temperature class T5

Rectangular power supply output characteristic:

$U_i = 24 \text{ V}$; $I_i = 25 \text{ mA}$; $P_i = 0.6 \text{ W}$; temperature class T5

$U_i = 24 \text{ V}$; $I_i = 50 \text{ mA}$; $P_i = 1.2 \text{ W}$; temperature class T4

Intrinsically safe parameters:

$C_i = 2.5 \text{ nF}$; $L_i = 18 \text{ } \mu\text{H}$

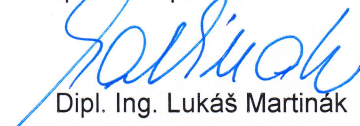
Range of permissible ambient temperature: $T_a = -40^\circ\text{C}$ to $+80^\circ\text{C}$ (-40°F to $+176^\circ\text{F}$)

(16) Report Number.: 17/0112

(17) Specific Conditions of Use:

1. 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.
2. Under certain extreme circumstances in dust explosive atmospheres, the device with painting of aluminum enclosure and with plastic tables and with elements of diaphragm seals covered by PTFE 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.
3. If the diaphragm seal contains titan parts, it must be protected against mechanical drops.

Responsible person:


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Physical-Technical Testing Institute
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(14) **EU - Type Examination Certificate No. FTZÚ 17 ATEX 0112X**

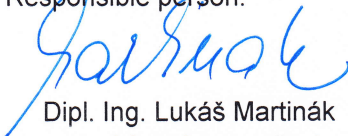
(18) Essential Health and Safety Requirements:

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.	Sheet:	Date:	Nr. of Pages:
3400-C611-TA	1-3	05.2017	3
Bulletin P3400	-	05.2017	24
Bulletin P3500	-	05.2017	24

Responsible person:


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Head of Certification Body



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