

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 11ATEX0132 X** Issue Number: **2**

(4) Product: **Smart Pressure Transmitter, Series APT3100 and APT3200**

(5) Manufacturer: **DUON System Co., Ltd**

(6) Address: **298-29 Gongdan-ro, Gunpo-si, Gyeonggi-do, Republic of Korea**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 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 test report number 214470400 Issue 2.

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

EN 60079-0 : 2009

EN 60079-11 : 2007

EN 60079-26 : 2007

except in respect of those requirements listed at item 18 of the Schedule.

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

(11) This EU-Type Examination 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 G or 2 G Ex ia IIC T5 or T4 Ga or Gb

Date of certification: 11 November 2016

DEKRA Certification B.V.

L.G. van Schie
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0132 X**

Issue No. 2

(15) **Description**

The Smart Pressure Transmitter Series APT3100 and APT3200 are used to measure and convert differential (Series APT3100 only), gauge and absolute pressures into a 4-20 mA HART signal. Optionally an analog board and a LCD display can be provided.

Ambient temperature ranges:

- For T5: -30 °C to +40 °C
- For T4: -30 °C to +80 °C

Electrical data

Power supply and output circuit (terminals PWR + and -): in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values: $U_i = 30 \text{ V}$, $I_i = 200 \text{ mA}$, $P_i = 0,9 \text{ W}$, $C_i = 27 \text{ nF}$, $L_i = 104 \text{ }\mu\text{H}$.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 214470400 Issue 2.

(17) **Specific conditions of use**

The non-metallic parts incorporated in the enclosure of this equipment may generate an ignition capable level of electrostatic charge. Therefore particularly when it is used for applications that specifically require Group IIC, EPL Ga equipment, the equipment shall not be installed in a location where the external conditions can result in the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

Models with enclosures made of aluminium (ASTM B85) are considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction. Particularly, it must not be used for applications that specifically require EPL Ga equipment.

The insulation between the intrinsically safe circuit and the frame of the equipment is not capable of withstanding a 500 V dielectric strength test as defined in clause 6.3.12 of EN 60079-11 : 2007. This shall be taken into account during installation.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Test Report No. 214470400 Issue 2.

(20) **Certificate history**

Issue 1	214470400	Initial certificate
Issue 2	219626500	change of address, EC-Type to EU- Type