

EU - Type Examination Certificate

- (1) **EU - Type Examination Certificate**
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

EPS 18 ATEX 1 156 X

Revision 1

- (4) Equipment: Electropneumatic positioner type TS600
- (5) Manufacturer: TISSIN Co., Ltd.
- (6) Address: 201-1105, No 397, Seokcheon-ro, Ojeong-gu, Bucheon-Si, Korea
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 18TH0255.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-0:2018 (IEC 60079-0:2017)

EN 60079-1:2014

EN 60079-11:2012

EN 60079-18:2015/A1:2017

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

II 2G Ex db mb IIB/IIC T6/T5 Gb



II 2G Ex ia IIC T6/T5 Gb

II 2D Ex tb IIIC T85°C/T100°C Db IP66



Certification department of explosion protection

Nuremberg, 2019-05-09

H. Schaffer



(13) **Annex**

(14) **EU - Type Examination Certificate EPS 18 ATEX 1 156 X**

Revision 1

(15) Description of equipment:

Electro-Pneumatic valve positioner TS600 series controls the valve stroke in response to an input signal of 4~20mA DC from the control panel, DCS or calibrator.

Enclosure fulfils IP66 rating according to EN 60529.

Electrical data:

4~20mA DC

Intrinsically safe version:

Ui max 28V

Ii max 101mA

Pi max 707mW

(16) Reference number: 18TH0255

(17) Special conditions for safe use:

Ambient temperature range: -40°C to +60°C (T5/T100°C) / -40°C to +40°C (T6/T85°C).

Intrinsic safe version must be supplied by certified power supply.

For Ex-mb type a fuse corresponding to the device's rating current (max. 3 x IN or, resp. IB according to IEC/EN 60127-2) shall be used in supply circuit.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2019-05-09



H. Schaffer