



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX EPS 18.0078X

Issue No: 1

Certificate history:

Issue No. 1 (2019-05-09)

Issue No. 0 (2018-10-26)

Status: **Current**

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Date of Issue: **2019-05-09**

Applicant: **TISSIN Co., Ltd.**
201-1105, No 397, Seokcheon-ro, Ojeong-gu, Bucheon-Si, Korea
Korea, Republic of

Equipment: **Electropneumatic positioner TS600**

Optional accessory:

Type of Protection: **ia, db, mb, tb**

Marking:

Ex db mb IIB/IIC T6/T5 Gb

Ex ia IIC T6/T5 Gb

Ex tb IIIC T85°C/T100°C Db IP66

Approved for issue on behalf of the IECEX
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2019-05-09



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Date of Issue: **2019-05-09** Page 2 of 4
Manufacturer: **TISSIN Co., Ltd.**
201-1105, No 397, Seokcheon-ro, Ojeong-gu, Bucheon-Si, Korea
Korea, Republic of

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/EPS/ExTR18.0080/01](#)

Quality Assessment Report:

[DE/EPS/QAR18.0004/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Addition of dust marking and optional marking for gas group IIB