



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx NEP 18.0008X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2021-10-21) Issue 0 (2018-08-24)
Date of Issue:	2024-01-08		
Applicant:	Shanghai LEEG Instruments Co., Ltd. No.99, Duhui Road, Minhang District Shanghai 201109 China		
Equipment:	Pressure Transmitter typed DMP305X-**T-*****-**-*C-*		
Optional accessory:			
Type of Protection:	Flameproof enclosure "db", Intrinsic safety "ia", Protection by enclosure "tb"		
Marking:	DMP305X-**T-*****-**-*C-*/E1: Ex db IIC T6 Gb, Ex tb IIIC T80°C Db DMP305X-**T-*****-**-AC-*/I1, DMP305X-**T-*****-**-BC-*/I1: Ex ia IIC T4 Ga Ambient temperature: -20°C~+60°C		

Approved for issue on behalf of the IECEx
Certification Body:

Guo Aihua

Position:

General Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments
and Automatic Systems Co., Ltd. (SITI/IAS)/
National Supervision and Inspection Center for Explosion
Protection and Safety of Instrumentation (NEPSI)
103 Cao Bao Road
Shanghai 200233
China**



SITI/IAS
Worldwide Access



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Manufacturer: **Shanghai LEEG Instruments Co., Ltd.**
No.99, Duhui Road,
Minhang District
Shanghai 201109
China

Manufacturing
locations:

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 equipment 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

CN/NEP/ExTR18.0008/00

CN/NEP/ExTR18.0008/01

CN/NEP/ExTR18.0008/02

Quality Assessment Reports:

CN/NEP/QAR18.0004/00
CN/NEP/QAR18.0004/03

CN/NEP/QAR18.0004/01

CN/NEP/QAR18.0004/02



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

DMP305X pressure transmitter adopts casting moulding aluminum alloy housing, the interior of the housing is a single chamber design. Between front cover, rear cover, explosion-proof plug, and housing, there are threaded flameproof joints. And it adopts O-ring and gasket sealing to approach IP66. The cement joint between display window and head cover applies sealing adhesive and fixed by a clamping ring. The adhesive length is greater than 10mm.

DMP305X pressure transmitter outputs a current signal suitable for the industry-standard by receiving the sensor's electrical signal and correction coefficient. The transmitter achieve intrinsic safety by reducing the capacitance and inductance energy storage components, paralleling Zener diodes.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When equipment is installed in a Zone 0 hazardous area, user shall avoid an ignition hazard due to impact or friction.
2. Contact the original manufacturer for information on the dimensions of the flameproof joints.
3. The equipment shall be supplied by an isolated safety barrier which is suitable with the internal parameter of the equipment: $U_i=28V$, $I_i=93mA$, $P_i=0.651W$, $L_i\approx 0mH$, $C_i=0\mu F$.
4. Observe the warning "WARNING-IN EXPLOSION ATMOSPHERE, KEEP TIGHT WHEN CIRCUIT ALIVE!".



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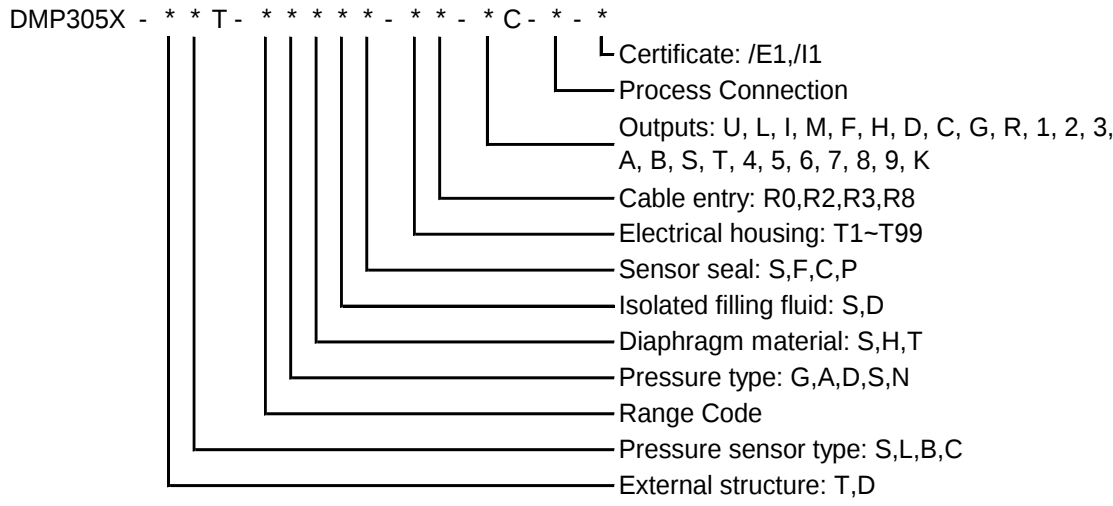
DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Intrinsic safety input power Pi minor change.

Annex:

[IECEx NEP 18.0008X Annex 1 Issue 2.pdf](#)

Type definition:



Rated electrical parameters:

Product type	Electrical parameters
DMP305X-**-T-****-**-*-C-*/E1	(12~30)VDC
DMP305X-**-T-****-**-AC-*/I1, DMP305X-**-T-****-**-BC-*/I1	Ui= 28V, Ii= 93mA, Pi= 0.651W, Li≈0mH, Ci=0 μ F