



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **CSANe 23ATEX1145X** Issue: **0**

Equipment: **DMP305X Series Pressure Transmitter**

Applicant: **Shanghai LEEG Instruments Co., Ltd.**

Address: No.99, Duhui Road
Minhang District
Shanghai, 201109
China

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II 2GD
Ex db IIC T6 Gb,
Ex tb IIIC T80°C Db
Ta = -20°C to +60°C

Signed: Michelle Halliwell

Title: Director of Operations



Project Number 80150616

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SCHEDULE

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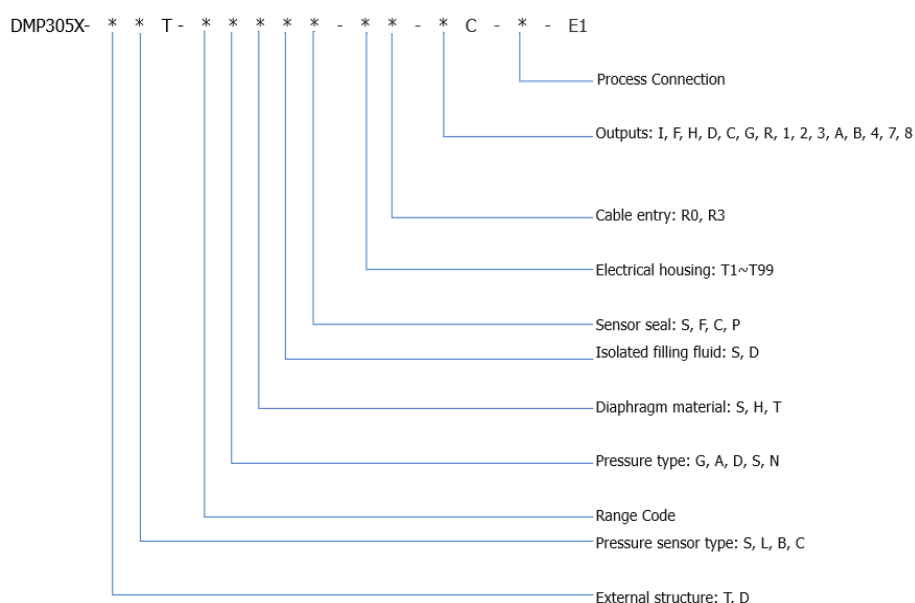
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13 DESCRIPTION OF EQUIPMENT

DMP305X gauge/differential 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 gauge/differential pressure transmitter outputs a current signal suitable for the industry-standard by receiving the sensor's electrical signal and correction coefficient. The transmitter is designed to be flameproof and dustproof.

Model designations are as follows:



Note: The code of range code and process connection is not explosion-proof related. These codes can be customized.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	11 August 2023	R80150615A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 Contact the original manufacturer for information on the dimensions of the flameproof joints.

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SCHEDULE

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Issue 0

- 15.2 Observe the warning "WARNING-IN EXPLOSION ATMOSPHERE, KEEP TIGHT WHEN CIRCUIT ALIVE!".
- 15.3 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- 15.4 The product is intended to be connected with a process temperature of -20°C to 80°C.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The Sensor head incorporates a welded design, the manufacturer shall verify the integrity of the welds by one of the following inspection methods:
- radiographic weld inspection; or
 - ultrasonic weld inspection; or
 - magnetic particle weld inspection; or
 - liquid penetrant weld inspection.

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Certificate Annexe



Certificate Number: CSANe 23ATEX1145X

Equipment: DMP305X Series Pressure Transmitter

Applicant: Shanghai LEEG Instruments Co., Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
DMP305X-T-EX	1 of 2	02	07 Aug 23	Assembly drawing
DMP305X-T-EX	2 of 2	02	04 Jul 23	Specification
110-S-000088	1 of 1	00	04 Jul 23	Sensor
180-CYJ-000147	1 of 1	00	04 Jul 23	Noumenon
180-CYJ-000148	1 of 1	00	04 Jul 23	Left noumenon
180-XTPJ-000012	1 of 1	00	04 Jul 23	Cup holder
180-XTPJ-000013	1 of 1	00	04 Jul 23	Ceramic chip
180-ZL10-000230	1 of 1	00	04 Jul 23	Shell Connector
180-ZL10-000231	1 of 1	00	04 Jul 23	Bellows connector
180-N-000017A	1 of 1	03	04 Jul 23	Clamp
180-YJH-000024	1 of 1	00	04 Jul 23	Clamp ring
DMP305X-DST-000001	1 of 1	00	04 Jul 23	Assembly drawing
DMP305X-TST-000001	1 of 1	00	04 Jul 23	Assembly drawing
170-000142	1 of 1	00	04 Jul 23	LCD10 display module
190-000059A	1 of 1	00	04 Jul 23	Case A
190-000059B	1 of 1	00	04 Jul 23	Case B
190-000053C	1 of 1	00	04 Jul 23	Case C
190-000073	1 to 2	00	04 Jul 23	Case
190-000074	1 of 1	00	04 Jul 23	Output module
190-000074-01	1 of 1	00	04 Jul 23	Terminal shell
190-000074-02	1 of 1	01	04 Jul 23	Wiring pillars
190-000074-03	1 of 1	00	04 Jul 23	Wiring gasket
190-000081	1 of 1	00	04 Jul 23	The key rod
190-000085	1 of 1	02	04 Jul 23	Cover plate
190-000086-01	1 of 1	00	04 Jul 23	Front cover
190-000086-02	1 of 1	00	04 Jul 23	Glass
190-000086-03	1 of 1	00	04 Jul 23	Clamping ring
190-000088	1 of 1	00	04 Jul 23	Rear cover
210-T-000001	1 of 1	00	04 Jul 23	Flame-proof plug I
210-T-000002	1 of 1	00	04 Jul 23	Flame-proof plug II
210-T-000003	1 of 1	00	04 Jul 23	Flame-proof plug III
250-000053	1 of 1	00	04 Jul 23	Spring
270-E-000014	1 of 1	02	04 Jul 23	Sticker
270-E-000017	1 of 1	00	04 Jul 23	Sticker
270-G-000020	1 to 2	03	04 Jul 23	Top nameplate
270-G-000021	1 of 1	01	04 Jul 23	Right nameplate
270-G-000022	1 of 1	01	04 Jul 23	Left nameplate
200-000089	1 to 6	R1.2016.05.10	04 Jul 23	LGHT-305XTF-DF54-B-V3
170-000088	1 of 4	00	04 Jul 23	Top Layer
	2 of 4	00	04 Jul 23	Top Overlay
	3 of 4	00	04 Jul 23	Bottom Layer
	4 of 4	00	04 Jul 23	Bottom Overlay
170-000089	1 of 7	2.0	04 Jul 23	Top Overlay
	2 of 7	2.0	04 Jul 23	Top Layer
	3 of 7	2.0	04 Jul 23	Signal
	4 of 7	2.0	04 Jul 23	GND
	5 of 7	2.0	04 Jul 23	Bottom Layer

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Certificate Annexe



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Equipment: DMP305X Series Pressure Transmitter

Applicant: Shanghai LEEG Instruments Co., Ltd.

Drawing	Sheets	Rev.	Date (Stamp)	Title
	6 of 7	2.0	04 Jul 23	Bottom Overlay
	7 of 7	2.0	04 Jul 23	Layer Stack
Process connection A	1 of 1	00	04 Jul 23	Base
Sensor A	1 of 1	00	04 Jul 23	Sensor
170-000033	1 of 1	00	04 Jul 23	Magnetic induction module
240-70-000018	1 of 1	00	04 Jul 23	Oring 23×2.5
240-70-000019	1 of 1	00	04 Jul 23	Oring 71×3
240-70-000020	1 of 1	00	04 Jul 23	Oring 53×1.5
240-70-000021	1 of 1	00	04 Jul 23	Oring 16×1.5
240-70-000022	1 of 1	00	04 Jul 23	Gasket
250-000066	1 of 1	00	04 Jul 23	Washer 8

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