1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **KIWA 17ATEX0029** Issue: **3**

4 Equipment: **Magnetic Level Indicator, Models MLA, MLB, MLC, MLD and MLE**

5 Applicant: **MLG Instruments**

6 Address: Olivier van Noortstraat 1
3124 LA Schiedam
The Netherlands

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

8 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.

9 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 ISO 80079-36 : 2016 EN ISO 80079-37 : 2016

10 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.

11 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.

12 The marking of the equipment shall include the following:

II 1 G
Ex h IIC or IIB+H_2 or
IIB or IIA T1...T6 Ga
Ta = -50°C to +60°C

II 1 D
Ex h IIIC T450°C...T85°C Da

Ta = -50°C to +60°C

Project Number 80072517

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, The Netherlands

SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Magnetic Level Indicator, Models MLA, MLB, MLC, MLD and MLE is used for measuring the level of liquids in tanks. The level indicator is mounted adjacent to the tank so the liquid level in the measuring tube corresponds to the liquid level in the tank.

Magnetic Level Indicator Model MLA is provided with one side connection; Magnetic Level Indicator Model MLB is provided with two side connections; Magnetic Level Indicator Model MLC is provided with inline connections; Magnetic Level Indicator Model MLD is for mounting on top of a tank, Magnetic Level Indicator Model MLE, is provided with two side connections and on the top of the outer chamber a certified guided wave radar can be placed.

The stainless steel measuring tube is equipped with a stainless steel or titanium float containing magnets. The outside indicator which is magnetically coupled with the float indicates the level inside the measuring tube.

The relation between model, equipment group and maximum chamber height is shown in the following tables:

Model MLA, MLB and MLE

Equipment group	Max. chamber height (mm)
IIC	20000

Model MLC

Equipment Group	Max. chamber height (mm)
IIA	4000
IIB	4000
IIB+H_2	2000
IIC	1200

Model MLD

Equipment Group	Max. chamber height (mm)
IIA	4000
IIB	2900
IIB+H_2	1700
IIC	1200

Model MLA, MLB, MLC, MLD and MLE

Equipment Group	Max. chamber height (mm)
IIIC	5700

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Thermal Data

The relation between temperature class, maximum surface temperature and maximum process temperature is listed in the following table:

Temperature class	Maximum surface temperature	Maximum process temperature
T6	T85°C	68°C
T5	T100°C	80°C
T4	T135°C	108°C
T3	T200°C	160°C
T2	T300°C	240°C
T1	T450°C	360°C

Ambient temperature range -50°C to +60°C

Variation 1 - This variation introduced the following change:

i. Extension of the chamber length of models MLA and MLB to max. 20000 mm.

Variation 2 - This variation introduced the following change:

i. Addition of type MLE

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Reports and Certificate History**

Issue	Date	Report number	Comment
1	17 January 2018	170200085 Issue 1	The release of the prime certificate.
2	14 September 2018	170200085 Issue 2	The introduction of Variation 1
3	01 June 2021	R80072517A	The introduction of Variation 2

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

None

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 Sira/CSA 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.

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Certificate Annexe

Certificate Number: **KIWA 17ATEX0029**

Equipment: **Magnetic Level Indicator, Models MLA, MLB, MLC, MLD and MLE**

Applicant: **MLG Instruments**

Issues 1 and 2. Refer to the reports listed in Section 14.2

Issue 3

Drawing	Sheets	Rev.	Date	Title
2707A	1 of 1	0	18 May 2021	Model MLE-150 MLE-300/MLE-600 MLE-10/16/40
-	1 of 1	-	18 May 2021	Float weight impact calculation
2015-374	1 to 19	7	18 May 2021	Explosion safety Ignition- and risk analyses
WPIOM	1 to 16	12	18 May 2021	Installation and Operation Manual – Magnetic Level Indicators

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