



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 15ATEX1292X** Issue: **2**

4 Equipment: **RT-30Ex Transmitter
HUB-41Ex Adaptor**

5 Applicant: **AW-Lake Company**

6 Address: **2440 W. Corporate Preserve Drive, #600
Oak Creek
Wisconsin 53154
United States of America**

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 60079-0:2012 EN 60079-1:2007

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 2 G
Ex d IIB+H₂ T5 Gb
Ta = -40°C to +60°C

Signed: M Halliwell

Title: Director of Operations



Project Number 80145371

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SCHEDULE

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Issue 2

13 DESCRIPTION OF EQUIPMENT

RT-30Ex Transmitter

The RT-30Ex is a meter-mounted digital flow monitor housed in a single access enclosure (Ex d connecting head) or dual access enclosure (Ex d 'Universal instrument housing'). A large LCD graphic display provides easy to read indication of flow rate. The enclosure contains 2 printed wiring boards – A display board and a terminal connection board with processor and I/O board. These are interconnected by a ribbon cable.

The Hub Adapter (swivel union assembly) comprises of 4 pieces: the swivel union top, bottom, collar and a sliding probe tube. The Hub Adapter houses the Hall Pickup assembly (wired probe tube pictured below) which is connected to the process pipe per control drawing RT30990 via 3/8"-18 NPT Male threads. The swivel union top connects to the RT-30Ex Transmitter or HUB-41Ex adaptor Flameproof Ex d enclosure via 1/2"-14 NPT Male threads. The top and bottom parts are held together by the swivel collar via a 1 3/8"-18 UNEF 2A/2B threaded union.

HUB-41Ex Adaptor

When an Ex d connecting head is assembled to the "swivel union assembly" instead of an Ex d enclosure, the unit becomes a HUB-41Ex Adapter found between a remotely mounted RT-30Ex transmitter and the process pipe. The Ex d connecting head for the HUB-41Ex is identified as model XD-AD by Limatherm (IECEX FTZ 14.0003U).

Control drawing RT30990 details several meter body connection options between the equipment and the meter body in the final installation. This control drawing addresses the minimum partition wall thickness, meter body connecting threads and alternative welding found under pressure. Two Styles of sensor ports are identified in the control drawing each rated for a Maximum Process Pressures within the meter body.

Variation 1 - This variation introduced the following changes:

- i. The company address was updated as follows:
From - AW-Lake Company, 8809 Industrial Dr, Franksville, Wisconsin 53126, United States of America.
To - AW-Lake Company, 2440 W. Corporate Preserve Drive, #600 Oak Creek, Wisconsin 53154, United States of America.
- ii. The Notified Body (NB) issuing the Quality Assessment Notification (QAN) was updated. The NB number in the marking was updated from 0359 to 2903.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report no.	Comment
0	24 September 2015	R70018715A	The release of the prime certificate.

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Issue 2

Issue	Date	Report no.	Comment
1	15 October 2019	1540	This Issue covers the following changes: <ul style="list-style-type: none">• Transfer of certificate Sira 15ATEX1292X from Sira Certification Service to CSA Group Netherlands B.V..• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>
2	01 November 2022	R80145370A	The introduction of Variation 1.

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

15.1 The meter body temperatures must not exceed 85°C for temperature class T5 for explosive gas atmospheres.

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 equipment incorporates previously Ex d certified enclosures, as shown in the table below. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device, and the manufacturer shall inform CSA Group Netherlands B.V. of any modifications of the device that may impinge upon the explosion safety design of the product.

Part number	Description	Certificate Number
XD-ID100win	"Universal instrument housing" two compartment aluminium enclosure with interconnecting port, one window cover and one blank cover	IECEX FTZ 10.0019U
XD-ID100		
XD-100H		
XD-ID100Hwin		
XD-I	"Universal instrument housing" aluminium enclosure with single internal compartment, one window cover and one blank cover	IECEX FTZ 12.0017U
XD-Iwin		
XD-IH		
XD-IHwin		
XD-ILwin		
XD-AD	"Connecting head" aluminium enclosure with one blank cover	IECEX FTZ 14.0003U

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- 17.4 Each manufactured meter body, identified in control drawing RT30990 (Rev F approved 14 July 2015), must withstand a pressure test of 1.5 times the maximum working pressure.
- 17.5 The meter body must have the sensor port manufactured according to Control Drawing RT30990 Revision level F, including construction material as noted on the drawing. The end user must be supplied with this control drawing RT30990 for proper installation of the sensor.

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