



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEx CSAE 21.0032X</b>	Page 1 of 3	<a href="#">Certificate history:</a>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2021-12-16		
Applicant:	<b>Sensia LLC</b> 7000 Nix Dr Duncan, Oklahoma 73533 <b>United States of America</b>		
Equipment:	<b>NUFLO Model MC Synergy EXP Totalizer</b>		
Optional accessory:			
Type of Protection:	<b>Flameproof "db", Dust Protection by Enclosure "tb"</b>		
Marking:	Ex db IIB+H2 T6 Gb Ex tb IIIC T85C Db IP66 Ta = -40°C to 70°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Neil Jones**

Position:

**Certification 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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**CSA Group Testing UK Ltd**  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside CH5 3US  
**United Kingdom**





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Date of issue: 2021-12-16

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Manufacturer: **Sensia LLC**  
7000 Nix Dr  
Duncan, Oklahoma 73533  
**United States of America**

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[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 Report:

[GB/CSAE/ExTR21.0175/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0027/06](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The NUFLO Model MC Synergy EXP Totalizer consists of a previously certified flameproof instrument housing manufactured from aluminium alloy or stainless steel. The screw on cover is fitted with an integral window assembly and sealed with a 'O' ring for environmental purposes. In the base of the unit there are three conduit openings which are used for fitting auxiliary equipment as shown below. Internally each unit is fitted with a D-size lithium battery manufactured by Xeno XL-200F/XL-205F, Tadiran TL-2300/TL-5930, or Saft LS33600 which powers the display unit and printed circuit boards, alternatively the equipment may be powered by an external power supply.

Refer to Annexe for additional information.

## Conditions of Manufacture

The Manufacturer shall comply with the following:

1. The products covered by this certificate incorporate previously certified/evaluated components, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Group of any modifications of the devices that may impinge upon the explosion safety design of their products.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The product may be fitted with a communication adaptor. When removing the conduit plug to fit the data transfer socket to the communication adaptor and during data transfer, the user/installer shall ensure that no explosive atmosphere is present. After data transfer has finished, the conduit plug shall be re-fitted in accordance with the relevant Code of Practice.
2. When the turbine meter pickup mount is fitted, it shall be used with turbine meter pick off coil bosses in accordance to those listed in certificate Sira 03ATEX1474U.
3. Some external parts of products that have epoxy powder-coated aluminium housing are non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.
4. Repairs of flameproof joints or dust ignition protection joints are not permitted. If any joint is damaged please contact manufacturer.
5. Under rated conditions, the branching point at the entry point may reach 80°C, therefore, when choosing cables and cable glands this shall be taken into account.
6. Replace the lithium battery only with the IECEx approved battery supplied by Sensia LLC (Part No.9A-100005111).
7. The lithium battery that powers the MC Synergy EXP is a sealed unit; however, should a lithium battery develop a leak, toxic fumes could escape upon opening the enclosure. Ensure that the instrument is in a well-ventilated area before opening the enclosure to avoid breathing fumes trapped inside the enclosure. Exercise caution in handling and disposing of spent or damaged batteries.

## Annex:

[IECEx CSAE 21.0032X Issue 0 Annexe.pdf](#)