



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX SIR 16.0091U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 3 [Issue 2 \(2023-03-22\)](#)
Date of Issue: 2025-01-30 [Issue 1 \(2019-08-21\)](#)
[Issue 0 \(2017-01-04\)](#)
Applicant: **Analog Devices Inc.**
804 Woburn St
Wilmington
MA, 01887
United States of America
Ex Component: ADUM144X Series Digital Isolators
This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).
Type of Protection: **Intrinsic Safety**
Marking: Ex ia IIC Ga

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

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:

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





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Manufacturer: **Analog Devices Inc**
804 Woburn Street
Wilmington
MA 01887
USA
United States of America

Manufacturing locations: **Analog Devices Inc.**
Gateway Business Park
Javalera
Gen. Trias Cavite
4107
Philippines

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 component 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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/SIR/ExTR16.0229/00](#)
[GB/SIR/ExTR25.0005/00](#)

[GB/SIR/ExTR19.0212/00](#)

[GB/SIR/ExTR23.0070/00](#)

Quality Assessment Report:

[GB/SIR/QAR16.0008/04](#)



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Ex Component(s) covered by this certificate is described below:

The ADuM144x is a Quad channel digital isolator. This assembly is intended to be used as an isolating component between separate intrinsically safe circuits. There are 6 variants available in two package options; a 16 pin QSOP package or a 20 pin SSOP package, with different dimensions and lead frames, but the same die set and isolation transformers for each. This family of devices has channel direction variants as well as differences in the logic state maintained at the active output when half of the chip does not have power applied. The differences are programmed at assembly by bond options.

The equipment assembly should be connected to suitably certified intrinsically safe circuits considering the entity parameters as shown in the Annexe:

SCHEDULE OF LIMITATIONS:

Refer to the Annexe



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This issue, Issue 3, recognises the following changes; refer to the certificate annex to view a comprehensive history:

1. Update to IEC 60079-11:2023
2. Include additional set of entity parameters for ADuM144x QSOP package
3. Update manufacturers address from Gateway Business Park, Javalera, Gen. Trias Cavite, Philippines, 4107 to 804 Woburn St, Wilmington MA, 01887, USA

Annex:

[IECEX SIR 16.0091U Annexe Iss 3.pdf](#)