



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

Certificate No.:	IECEx EXV 24.0026X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-10-18		
Applicant:	Hansford Sensors Limited Artisan Hillbottom Road Sands Industrial Estate Bucks HP12 4HJ United Kingdom		
Equipment:	HS-420d Accelerometer		
Optional accessory:	N/A		
Type of Protection:	Flameproof Ex 'db'		
Marking:	Ex db IIC T6/5/4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

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 or use of this QR Code.



Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Manufacturer: **Hansford Sensors Limited**
Artisan
Hillbottom Road
Sands Industrial Estate
Bucks
HP12 4HJ
United Kingdom

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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/EXV/ExTR24.0043/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0040/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The HS-420d Series of accelerometers are designed to be fitted into a certified elbow or thermocouple head. It is constructed robustly from stainless steel and is approximately 50mm long x 30mm in diameter. Internally the sensing circuitry is potted and only the terminal connection is accessible for field wiring. An external thread is provided for final installation.

Rating: 24V 4-20mA

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flameproof joints not intended to be modified or repaired.
- When installing where Tamb may be > 65°C, select suitable cable & gland.
- Final installation must provide earth bonding to the sensor body via fixture to metal earthed structure.



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Additional information: Technical Documents

Title:	Drawing No:	Rev:	Date:
HS-420d Top Exit Ex d General Arrangement	M06-105-1-A	A	17/01/24
HS-420d Top Exit Ex d Hansford Marking	M06-105-2-A	A	17/01/24
HS-420d Top Exit Ex d Customer Marking	M06-105-3-A	A	17/01/24
Ex d Sensor Base M8 Female	M02-156-D	D	05/05/24
¾" NPT Male to various Female Threads	M01-296-B	B	07/06/24

Note: An * is included before the title of documents that are new or revised