



1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 24ATEX1830X Issue: 0

4 Equipment: Accelerometer

5 Manufacturer: Hansford Sensors Limited

6 Address: Artisan, Hillbottom Road, Sands Industrial Estate,
Bucks, HP12 4HJ, UK

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

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018 EN 60079-1: 2014

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 2G Ex db IIC T6/5/4 Gb

T_{amb} -20°C to +75/90/100°C

On behalf of ExVeritas



PROD Reg. No. 7044
Member of EA MLA

Peter Lauritzen
Managing Director

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The status of this certificate can be verified at www.exveritas.com

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Schedule

13 Description of Equipment or Protective System

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 threaded fitment is provided for final installation.

Rating: 24V 4-20mA

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R5089/A/1		0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Title:	Drawing No:	Rev:	Date:
Ex d Sensor Base M8 Female	M02-156-B	B	13/02/24
HS-420d Top Exit Ex d General Arrangement	M06-105-1-B	B	25/03/24
HS-420d Top Exit Ex d Hansford Marking	M06-105-2-B	B	25/03/24
HS-420d Top Exit Ex d Customer Marking	M06-105-3-B	B	25/03/24
IOM			

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- Flameproof joints not intended to be modified or repaired.
- Tamb > 65°C, select suitable cable

15.2 Conditions for Use (Routine tests)

- None

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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Issue 0

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