

1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 23ATEX1702X Issue: 0

4 Equipment: HS-150tb Top & Side entry Series Accelerometers

5 Manufacturer: Hansford Sensors Ltd

6 Address: Artisan, Hillbottom Rd, Sands Industrial Estate, High Wycombe, Bucks, HP12 4HJ

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 60079-31:2014

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 2 D Ex tb IIIC T110°C Db T_{amb} -55°C to +82°C

Schedule

13 Description of Equipment or Protective System

The HS-150tb Top & Side entry Series Accelerometers are designed to measure acceleration or vibration by converting the signal generated by the compression of a Piezo electric crystal by a given seismic mass and outputting a broadband ac signal to the monitoring equipment.

The accelerometer comprises of a piezo electric crystal connected to a signal conditioning board, all contained within a fully welded steel enclosure.

Electrical connections are made via the integral cable.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
4757/A/1	22-09-2023	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
HS-150tb Top Exit General Arrangement	M06-104-A	A	03/08/23
HS-150tb Side Exit General Arrangement	M06-104-A	A	03/08/23
HS-150tb Top and Side Exit Markings	M06-104-A	A	03/08/23

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- Do not disconnect the equipment while energised.
- The equipment is fitted with an integral cable, the flying lead terminations must be afforded a degree of protection of at least IP6X.

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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For help or assistance relating to this certificate, contact info@exveritas.com.

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