

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS14ATEX17989 R.0**

4. **Product:** Group II Ex d Float Switch

5. **Manufacturer:** AMS Instrumentation and Control Ltd

Applicant: AMS Instrumentation and Control Ltd

6. **Address:** Unit 8b A30 Business Park Lodge Way,
Indian Queens, St. Columb, Cornwall, TR9
6FZ, UK

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7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. G101527547 dated June 2014, G102653812 dated March 2017, 104245674CHE-001 dated 15 December 2020 and 104976517CHE-001 dated 07 March 2022.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-26:2015 and EN 80079-36:2016 in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product 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 and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2/1 G Ex db h IIC T6...T3 Gb/Ga
See Schedule for ambient range details

Certificate issue date

21st May 2022

Mark Newman

Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23a (28 February 2022)



SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Group II Ex d Flameproof Float Switch is rated up to 440V, 10A and comprises a cylindrical cast body, with integral mounting flange, and cast spigot cover secured by four 20mm long M10 socket head cap screws stainless steel Grade A2-70. Both the body and cover are manufactured from stainless steel Grade 316 C71 to BS3100:1976.

A through hole located centrally in the base of the body give access to a welded tube assembly. The tube assembly comprises a stainless-steel tube having an outside diameter of ½ inch and length up to 18 feet. The tube contains up to three reed switches at discrete positions, each located by insulating sleeving. The point of exit of the wires from the tube is sealed with Polyester resin and Silicone rubber surrounds the wires entering the enclosure body.

A 4-way terminal blocks provided in the enclosure body. Associated with and external to the tube is a captive float on which is mounted the reed switch operating magnet.

Internal and external earthing facilities are provided.

The enclosure is provided with four clearance holes in the integral mounting flange for installation purposes.

A cable entry hole is provided as specified on the certified drawings for the accommodation of a suitable ATEX certified cable entry device, with or without the interposition of a suitable ATEX certified flameproof thread adaptor. The cabling methods used in service must be suitable for the conditions of use.

The temperature class is dependent on the process and ambient temperatures as indicated in the following table:

Temperature Class	Max Liquid Temperature	Max Ambient Temperature	Cable Entry Temperature
T6	70°C	70°C	70°C
T5	85°C	85°C	85°C
T4	120°C	120°C	120°C
T3	150°C	150°C	150°C



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14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
*ATEX Nameplate for Group II AMS Flameproof Switch	FS4476	I	06.12.21
*ATEX Submission Drawing for Group II AMS Flameproof Switch (Sheets 1, 2 & 4 of 5)	X4039	I	15.12.21
*ATEX Submission Drawing for Group II AMS Flameproof Switch (Sheets 3 & 5 of 5)	X4039	J	06.12.21
*Installation, Operating & Maintenance Manual	AMS-S-063/DS/07.2021	-	As Stamped
*Float Switch Flameproof Cover	FS4407 / FS4408	I	15.12.21
*Float Switch Flameproof Body	FS4422 / FS4423	K	15.12.21
*ATEX Nameplate for Group II AMS MK10 Flameproof Switch	FS4476-1	B	07.12.21

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

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS FOR USE

None.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104976517CHE-001 dated 07 March 2022.

17. ROUTINE (FACTORY) TESTS

- In accordance with Clause 16 of EN 60079-1:2014 each Float Switch shall be subjected to an overpressure test at 38bar for at least 10 seconds. Results must be recorded.

18. DETAIL OF CERTIFICATE CHANGES

R.0 (21st May 2022):

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed February 2022, on the certificate, legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Update to controlled documentation following issuance of UKEX certificate.