

# 1 EU - Type Examination Certificate

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

3 Certificate Number: ExVeritas 17 ATEX 0280X Issue: 0

4 Equipment: HFS Ex Horizontal Level Switch

5 Manufacturer: Deeter Electronics Ltd.

6 Address: Deeter House, Valley Road, Hughenden Valley,  
High Wycombe, Bucks, HP14 4LW. 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 2585 in accordance with Article 9 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 60079-0: 2012+A11:2013      EN 60079-1:2014      EN 60079-26:2015  
EN60079-31:2014

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 1/2 G Ex db IIC T\* Ga/Gb  
II 2 D Ex tb IIIC T\*°C Db



No. 8613

On behalf of ExVeritas

  
S Clarke CEng MSc MIEET  
Certification Manager

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The certificate is only valid when it carries an original signature.

For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

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## Schedule

### 13 Description of Equipment or Protective System

The Deeter HFS Ex is a liquid level switch with volt free terminals for use in a potentially explosive atmosphere. The liquid level is detected when the float arm is raised and aligns a magnet with a SPST or SPDT reed switch sealed inside a stainless steel housing.

The switch can be mounted horizontally in the side of a vessel via a flange or threaded plug and has the option to fit floats of different materials, sizes and specific gravity. The length between the mounting face and float can be varied dependent upon the application. An optional extension bar may be added between the mounting and the terminal head.

The following temperature classes are applicable based on the process temperature which the equipment is connected to:

Process Temperature	Temperature class for gas	Temperature class for dust
≤85°C	T5	T100°C
≤125°C	T4	T135°C
≤190°C	T3	T200°C

Rating:

0 to 240Vac. 1A 50W Max

0 to 50Vdc. 0.25A 20W Max

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R1154/A/1	07/09/17	0	Initial issue of the Prime Certificate

#### 14.2 Compliance Drawings:

##### Issue 0

Number	Date	Issue	Description
D600798	2017/02/21	Rev 1	HFS-Ex all versions – Sheet 1 of 3
D600798	2017/02/21	Rev 1	HFS-Ex all versions – Sheet 2 of 3
D600798	2017/02/21	Rev 1	HFS-Ex all versions – Sheet 3 of 3
Dwg 950553	2017/08/11	Rev 2	Adaptor 1/2"NPT long thread to 12mm – Sheet 1 of 2
HFS Ex Manual	2017/07/10	-	HFS Ex Manual – Sheets 1 to 10

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## **Schedule**

15      Conditions of Certification

15.1      Special Conditions for Safe Use

- When intended to be operating with process temperatures above 85°C, the sensor head shall be sufficiently cooled to keep it below 80°C. See installation manual for details.

15.2      Conditions for Use

- Routine tests on production in accordance with clause 16 of EN/IEC 60079-1 to a pressure of at least 64.8 Bar.
- The equipment covered under this certificate incorporates previously certified components, it is therefore the responsibility of the manufacturer to monitor the status of the certification of these components and inform ExVeritas of any changes that may affect the explosion safety design of their products.

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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