1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3	UK-Type Examination Certificate Number:	**BAS21UKEX0508X Issue 1**
4	Product:	**TT-FFS Discreet Fuel Sensor**
5	Manufacturer:	**Chemelex LLC**
6	Address:	**899 Broadway Street, CA, 94063-3104 United States of America**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the change of entity to SGS United Kingdom Limited. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the Schedule.
This certificate issue is for the sole purpose of recording a change to the certificate holder's name/address. A technical review has not been undertaken and the standards remain at the editions listed previously.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 1 G Ex ia IIA T4 Ga (-40°C ≤ Ta ≤ +85°C) (Ui = 28V)

Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +85°C) (Ui = 15V)

SGS Customer Reference No. **865** Project File No. **25/0111**

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UKAS PRODUCT CERTIFICATION
0191

Authorised Signatory

13 # Schedule

14 ## Certificate Number BAS21UKEX0508X – Issue 1

15 Description of Product

The TraceTek TT-FFS, TT-FFS-I and TT-FFS-WR Discrete Fuel Sensors are fast acting probes designed to detect hydrocarbon fuel floating on water, spreading on a flat surface or collecting in a sump. The probes ignore water but are capable of detecting a thin film floating on the surface. The probes are available in two lengths for fixed position installations and can be fitted on to a float assembly if the water level is unpredictable.

The TT-FFS, TT-FFS-I and TT-FFS-WR are mounted within orange tubular enclosures; slots in the side of the enclosure allow the passage of the monitored medium to the sensing element. A short integral cable connects the equipment to the monitoring circuitry.

The TT-FFS-WS differs from the TT-FFS and TT-FFS-I models in construction only. The TT-FFS-WS is provided with a single sensing film mounted to the PCB. A slot is provided so that the monitored medium can come into contact with the sensing film and completely surround it.

Input Parameters
U_i = 15V (IIC) or 28V (IIA)
I_i = 300mA
P_i = 1.125W
C_i = 0.24µF
L_i = 0

16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

1. The enclosure poses a potential electrostatic hazard; clean only with a damp cloth
2. The equipment may not be able to withstand a 500V isolation test between the circuitry and the monitored medium; this should be taken into account during installation.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21(1)	External effects
21(2)	Aggressive substances, etc.

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
1027-0930	1	J	20-JUN-2022	TT-FFS APPROVAL LABEL-BSF TRACETEK FAST FUEL SENSOR H59112
1027-0931	1	F	28-JUN-2022	TT-FFS APPROVAL LABEL-BSF TRACETEK FAST FUEL SENSOR H59192 18/05

Number	Sheet	Issue	Date	Description
1027-0932	1	B	20-JUN-2022	TT-FFS-WR APPROVAL LABEL-BSF TRACETEK FAST FUEL SENSOR H60677

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20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0508X Issue 0	25 March 2024	**Prime Certificate** **Report Number: GB/BAS/ExTR21.0184/00** **Project Number: 23/0333** **Original issue of the certificate**
BAS21UKEX0508X Issue 1	19 November 2025	The issue of this certificate permits existing information (for example on Certificate Schedule Drawings or label marking) to be updated to show the new name, no other changes may be made to the certified design. A technical review has not been undertaken, and the standards remain at the editions listed previously. Report Number: None Project Number: 25/0111
For drawings applicable to each issue, see original of that issue.		