

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: **BAS23UKEX0065X Issue 2**

4 Product: **TEK 880 Tank Level Radar Measurement Equipment**

5 Manufacturer: **Rochester Sensors Europe Limited**

6 Address: **Unit 118 Shannon Industrial Estate, Shannon, Co Clare, Ireland**

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 (a division of SGS United Kingdom Limited), 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.

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:

 **See Certificate Schedule**

SGS Customer Reference No. **7761**

Project File No. **24/0549**

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**SGS Baseefa**

(a division of SGS United Kingdom Limited)

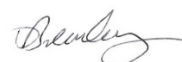
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D BREARLEY  
LEAD CERTIFICATION ENGINEER  
On behalf of SGS United Kingdom Limited

13 **Schedule**

14 **Certificate Number BAS23UKEX0065X – Issue 2**

15 **Description of Product**

The TEK 880 Radar level measurement sensor uses high frequency radar pulses to determine the ullage distance (or headspace) in a tank, by measuring the time of flight from the bottom of the device to the surface of the liquid. The tank % full volume can be inferred from this figure. This sensor has Bluetooth communication module (BLE 5.0) module to provide for easier setup and activation via a cell phone iOS or Android application.

The TEK 880 device is a moulded plastic enclosure with marking labels on the side and the top of the equipment. The TEK 880 enclosure is provided with several fixing screws that join a base and cover together and encloses the electronics and the replaceable battery pack.

The TEK 880 has a 2” threaded opening to allow it to be screwed into an opening of a tank in the traditional invasive way or can be used with an adaptor to allow sensing in a non-invasive manner.

Equipment Marking

The equipment may be marked with one of the following marking strings dependent on the target ambient temperature range that the equipment is to be used in:

⊠ II 1 G Ex ia IIB T4 Ga (-25 °C ≤ Tamb ≤ +50 °C)

⊠ II 1 G Ex ia IIB T4 Ga (-30 °C ≤ Tamb ≤ +50 °C)

16 **Report Number**

See Item 20 – Certificate History

17 **Specific Conditions of Use**

1. The plastic enclosure is a potential electrostatic hazard. Clean only with a damp cloth and do not mount in a high velocity dust laden atmosphere.
2. Batteries must be changed in a non-hazardous area or when the hazardous atmosphere is known not to be present.
3. The equipment must only be powered by battery packs supplied by Rochester Sensors Europe Limited specifically those marked 4-5485 and carry the instruction to use on TEK 880.

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
9-6268	1 of 1	02	---	TEK 880 ATEX Side Label
9-6269	1 of 1	03	---	TEK 880 ATEX Top Label
9-6293	1 of 1	02	---	TEK 880 ATEX Low Temp Top Label

For all other drawings describing the construction of the equipment refer to SGS23ATEX0033X Issue 2.

## 20 Certificate History

Certificate No.	Date	Comments
BAS23UKEX0065X Issue 0	27 June 2023	<b>Prime Certificate</b> <b>Report Number: GB/BAS/ExTR23.0059/00</b> <b>Project Number: 20/0330</b>  <b>Original issue of the certificate</b>
BAS23UKEX0065X Issue 1	21 March 2025	To permit a change of name and the use of an alternative manufacturing facility as detailed in Report Number GB/SGS/ExTR25.0006/00 held with Project Number 24/0071.
BAS23UKEX0065X Issue 2	23 April 2025	To permit minor changes to allow alternative build options for the construction of the equipment. Report Number: GB/SGS/ExTR25.0041/00 Project Number: 24/0549

For drawings applicable to each issue, see original of that issue.