


# CERTIFICATE OF COMPLIANCE

**Certificate Number:** SGSNA/23/CA/00001X

**Contract Number:** 800912  
**Certificate Project Number:** BAS-CERT230300002

**Certified Product:** LTE Logger Radar Level Sensor  
**Trademarks:** 

**Model(s):** TEK 880  
**Technical Data:** Battery Powered (Lithium Thionyl Chloride Battery Pack – 2 Primary Cells, Parallel Connection): 3.9 V  
 Class I, Zone 0, AEx ia IIB T4 Ga  
 Ex ia IIB T4 Ga  
 Class I, Division 1 Groups C and D T4  
 -25°C ≤ Tamb ≤ +50°C or -30°C ≤ Tamb ≤ +50°C

**Certificate Holder:** Rochester Sensors Europe Limited  
 Unit 118 Shannon Industrial Estate, Shannon, Co Clare, V14 XY18, Republic of Ireland

*This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at [www.sgs.com](http://www.sgs.com) or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:*

- UL 60079-0 Explosive Atmospheres – Part 0: Equipment – General Requirements – 7th Edition – Revision: April 15, 2020.
- UL 60079-11 Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i” – 6th Edition – Revision: January 25, 2023.
- CAN/CSA C22.2 No. 60079-0:19 Explosive Atmospheres – Part 0: Equipment – General Requirements (IEC 60079-11: 2017, MOD).
- CAN/CSA C22.2 No. 60079-11:14 Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i” (IEC 60079-11, MOD).
- UL 913 Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations – 8th Edition, Revision: May 10, 2022

Authorized by:



David Brearley  
 Certifier

Effective date: 20<sup>th</sup> March 2025



**Certification Body**

Connectivity & Products, a division of SGS North America Inc.  
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## Product description

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) 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.

The equipment may be marked with the ambient temperature range of either  $-25\text{ }^{\circ}\text{C} \leq T_{amb} \leq +50\text{ }^{\circ}\text{C}$  or  $-30\text{ }^{\circ}\text{C} \leq T_{amb} \leq +50\text{ }^{\circ}\text{C}$ . Both temperature markings shall not appear on the equipment.

## Conditions of Acceptability

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.
4. Ordinary locations evaluation was not conducted. The certificate holder is responsible for maintaining an ordinary locations certification in good standing by an NRTL.

## Certification Body

Consumer and Retail Services, a division of SGS North America Inc.  
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