



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/21/CA/00005X

Contract Number: 800912
Certificate Project Number: BAS-CERT210300006

Certified Product: Ultrasonic Measurement Device
Trademarks: -
Model(s): TEK 811 Ex, TEK 811 LR Ex
Technical Data: Class I Div 2, Groups A, B, C & D T4 (-20 °C ≤ Tamb ≤ +50 °C);
Battery Powered - 4 LR14 Zinc Manganese Dioxide Alkaline C-Type cells

Certificate Holder: Tekelek Europe Ltd
Unit 118, Shannon Free Zone, Shannon, Co.Clare, V14XY18, 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 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:

ANSI/ISA 12.12.01, Rev. 21 August 2015
CAN/CSA C22.2 No. 213, 21 August 2015
UL 121201, 9th Ed., Rev. September 15, 2017
CAN/CSA C22.2 No. 213, 3rd Ed., September 1, 2017

Authorized by:

Effective date: 26 August 2021



David Brearley
Certifier



Certification Body

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Product description

The TEK 811 Ex Ultrasonic is a tank level measuring product specifically designed to transfer liquid level measurements via a wireless measurement via GSM (2G), LTE-CAT M1 & NB-IoT signal to a local host for further processing and/or distribution to a remote server. The tank level is measured by means of an ultrasonic signal that is transmitted via a piezo-electric transducer.

The main enclosure consists of a cover/lid secured to the base by means of fixing screws. The TEK 811 Ex Ultrasonic is a self-contained battery powered device that utilises four 1.5 V Alkaline Cells to power the equipment. There are no external connections on the equipment and access to the cells is achieved by dismantling the enclosure through the removal of four screws on the underside of the enclosure.

The equipment enclosure is plastic and incorporates a small piezo buzzer/beeper within the equipment. A small button switch is also present on the front of the equipment recessed within the enclosure.

The certification also includes the TEK 811 LR Ex. The TEK 811 LR Ex is an additional construction that modifies the TEK 811 Ex assembly by including an extended horn. The equipment may be fitted with a spacing plate or a mounting bracket that permits the installation of the unit in the end-use application and a bracket assembly. The base of the TEK 811 LR Ex differs from the TEK 811 Ex by removing the thread from the horn to allow the fitting of the horn extender to the enclosure. The horn is provided with 2 holes to permit the use of screws to secure the horn to the Base enclosure. The extended horn is a separate assembly that extends the existing TEK 811 Ex horn. The horn does not replace the TEK 811 Ex horn and fits over the existing horn with the only difference being the removal of the thread on the enclosure base for the horn as described previously. This horn therefore does not create a more onerous certification condition than that considered for the TEK 811 Ex. Consequently, the electronics and any electrical connection is common across all models.

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. Only use four (4) LR14 Zinc Manganese Dioxide Alkaline C-Type cells connected in series. All cells used must be by the same manufacturer and only new cells must be fitted when cells are depleted.
3. Do not open the enclosure or change batteries in an area where ignitable atmospheres are present.
4. Only replace cells with fresh cells of the same type and manufacturer as described previously taking care to ensure that the cells are not incorrectly fitted.
5. Ordinary locations evaluation was not conducted. The certificate holder is responsible for maintaining an ordinary locations certification in good standing by an NRTL.

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