

915 Point Level Sensor

Safety Manual

Rochester Sensors, LLC

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United States of America

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IMPORTANT

PLEASE, READ THIS MANUAL CAREFULLY BEFORE USING THE PRODUCT IN HAZARDOUS AREAS WHERE A RISK OF EXPLOSION EXISTS.

1 Introduction

This document contains important information to be complied with to guarantee the product's safety under the conditions recommended by Rochester Sensors, LLC. Not complying with these recommendations may result in dangerous consequences, infringing regulations or voiding the safety certification.

Only trained personnel are allowed to operate with this device in hazardous locations. These individuals must understand the associated risks and be fully competent with the product's safe operation.

2 Description

The 915 Point Level Sensor is an intrinsically safe telemetry device designed to detect the presence of liquid in LPG tanks. The device is mounted on the tank side wall with the use of a special couplant (for more details, refer to the Installation Manual). An ultrasonic transducer is embedded in the device to sense the liquid in the tank. Information about the measurements can be read via the 2.4GHz radio interface. The device is powered by a non-replaceable lithium battery pack.

3 Marking

3.1 Ex marking ATEX / IECEx

ATEX and IECEx marking according to IEC 60079-0 and ATEX directive 2014/34/EU.

Prefix

Ex marking



II 1G

Ex ia IIB T4 Ga

3.2 Ex Marking FM USA

US marking according to ANSI/UL 60079-0.

Ex marking

Class I, Zone 0, AEx ia IIB T4 Ga

Class I, Div 1 Gr C,D T4

3.3 Ex Marking FM Canada

Canadian marking according to CSA C22.2 No.60079-0.

Ex marking

Ex ia IIB T4 Ga

Class I, Div 1 Gr C,D T4

3.4 Certificate

Directive/Regulation	Certification Number
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ATEX	SGS25ATEX0017X
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IECEx	IECEx SGS 25.0010X
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UKEx	SGS25UKEX0018X
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North America	SGSNA/YY/CA/NNNNNN
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3.5 Notified Body ID Number

800912

3.6 Temperature Range

From -40°C to +80°C.

3.7 Serial Number

Serial number is printed on the label.

3.8 Manufacturing Date

Manufacturing is printed on the label.

3.9 Manufacturer

Rochester Sensors, LLC

1025 S Belt Line Road Suite 100; Coppell, TX 75019

United States of America

4 Safety Instructions

4.1 Putting Into Service

The 915 Point Level Sensor is delivered with connected batteries. Start-up of the device requires only proper use of user interface as described on the Installation Manual. Activities related to starting up of the device do not have influence on Ex safety.

4.2 Installation/Deinstallation

During installation/deinstallation it is necessary to protect the device against gathering electrostatic charge on the device surface.

WARNING

POTENTIAL ELECTROSTATIC CHARGING HAZARD

Caution must be used when handling or cleaning products so there is no static charge buildup. Do not wipe off the 915 Point Level Sensor with dry cloth. Use only water damp cloth and allow to air dry for cleaning device. Do not use or install in high charge areas. See IEC60079-32-1 for further information.

AVERTISSEMENT

RISQUE DE CHARGE ÉLECTROSTATIQUE POTENTIEL

Il faut être prudent lors de la manipulation ou du nettoyage des produits afin qu'il n'y ait pas d'accumulation de charge statique. N'essuyez pas le capteur Point Level Sensor avec un chiffon sec. Utilisez uniquement un chiffon humide et laissez sécher à l'air pour nettoyer l'appareil. Ne pas utiliser ou installer dans des zones de charge élevée. Voir IEC 60079-32-1 pour plus d'informations.

4.3 Use

After installation, the device use does not require any activity related to Ex safety.

4.4 Maintenance, Overhaul and Repair

The device does not require any maintenance work.

WARNING

NON-REPAIRABLE PRODUCT

This product contains factory-sealed components and is not designed to be repaired, serviced or modified under any circumstances. Unauthorized repair attempts will void all warranties and may violate the safety regulation. If the product is damaged, malfunctioning, or no longer operating as expected, replace it with a new unit.

5 FCC Part 15 Compliance

5.1 Modification Statement

Rochester Sensors, LLC has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

5.2 Interlacement Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

5.3 Wireless Notice

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device needs to be installed and used on distance greater than 20 cm from human body.

5.4 FCC Class B Digital Device Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

6 IC License Compliance

6.1 Interference Statement [EN]

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

6.2 Interference Statement [FR]

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

6.3 Wireless Notice [EN]

This equipment complies with the ICESRF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of the human body.

6.4 Wireless Notice [FR]

Cet équipement est conforme aux limites d'exposition aux radiations ICES définies pour un environnement noncontrôlé . Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et une partie de votre corps.

7 RED Compliance

Product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU (RED). To confirm this, it bears the marking:



7.1 Radio-frequency exposure

The device complies with RF specifications when the device used at 20cm from your body.

Frequency Bands	2.402GHz-2.480GHz (BLE)
Maximum Output Power	1.30dBm (EIRP)