



Otodata 2ADQFBEZ01D Bluetooth Tank Level Indicator for Rotarex Capacitive Probes Installation Guide

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Installation Procedure
Bluetooth Tank Level
Indicator for Rotarex
Capacitive Probes

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2ADQFBEZ01D Bluetooth Tank Level Indicator for Rotarex Capacitive Probes



IMPORTANT It is critical in all installations to ensure monitors' antenna is positioned vertically. This will achieve optimal signal strength, ensuring that you receive data in a timely manner and prolong the battery life of the monitor.

PLEASE TAKE A MOMENT TO CARE
INSTRUCTIONS INCLUDED WITH YOUR
YOU UNDERSTAND AND RESPECT LOCAL



WARNING Substitution of components may impair intrinsic safety. For outdoor use only. Explosion Hazard. Batteries are not replaceable on this device. Please contact Ototata if you need a new monitor. Under certain extreme conditions, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions can cause build-up of electrostatic charge on such surfaces. In addition, the enclosure shall only be cleaned with a damp cloth.

Support

+1 (514) 673-0244

+1 (844) 763-3344 (toll-free)

support@otodata.com

otodatatankmonitors.com/support

Emergency Support

Available 24/7

1-833-529-9499

Specifications

Bluetooth tank level indicator for Rotarex capacitive probes

Input

Analog input from Rotarex capacitive probes type 462 or 487

Reporting & Outputs

Reporting	Tank level (5% variation) Low battery High/Excessive draw Fill Detection
Data Interface	API Email (to supplier and/or consumer) Raw data Online dashboard Client mobile app
Automated Testing	Network status Battery status

Electrical Specifications

Refer to markings label for battery pack used

Radio Specifications

Technologies	4G, LTE, CAT1, CATM, NB IOT, 3G Dual SIM Bluetooth
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Environmental Specifications

Operating and storage temperature range	-40°C to 60°C -40°F to 140°F
Relative humidity range	0% to 100%
Enclosure rating	IP54
Warranty	2 years

Certifications

Monitors are third-party certified by Intertek for use in hazardous locations.

United States



Intertek
5028102

Classification: Class I, Zone 0, [AEx ia Ga] IIC T4.

Conforms to UL STDs 60079-11, 60079-0, and 61010-1

Canada

Classification: Class I, Division 1, Groups ABCD [Ex ia Ga] IIC T4. Certified to CSA STDs C22.2# 60079-11, 60079-0, and 61010-1-12

IECEX Classification: Ex ia IIC T4 Ga Certificate #: IECEX ETL 23.0008X Standards applied: IEC 600790:2017 – IEC 60079-11:2011	ATEX Classifica Certificate Standards 600790:20
ASSOCIATED APPARATUS ENTITY PARAMETERS Uo [V] = 3.9V, Io [mA] = 218mA, Po [mW] = 181mW, Co [μF] = 38.98uF, Lo [μH] = 188.98uH	RADIO C FCC ID: 2 IC ID: 126

Dimensions

Height	14 cm	5.5 in
Width	14 cm	5.5 in
Depth	9.5 cm	3.5 in

Ordering

TM5240BG-VA00-CNEE-RC1010*

Rotarex BT, Capacitive Probe and Gen3 Monitor

RC1010

Rotarex BT, Capacitive Probe, No Monitor

*Change “CNEE” for the client’s branding code if available

This device complies with part 15 of the FCC Rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device is compliant with Industry Canada’s RSS standards for license-exempt radio apparatuses. Authorized use depends on the following two conditions: (1) the device must not create radio interference, and (2) the device user must accept all radio interference, even if this interference could potentially impair its functioning. 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. To comply with FCC RF exposure compliance recommendations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Device Anatomy

Our handy RC1010 device was designed to fit seamlessly over a Rotarex capacitive probe and make it “smart”. RC1010 will read the tank level data from the Rotarex probe and transmit the information to Otodata’s powerful Bluetooth monitor (TM5240BG) positioned nearby.

The TM5240BG monitor will then transmit the level data to the cloud.

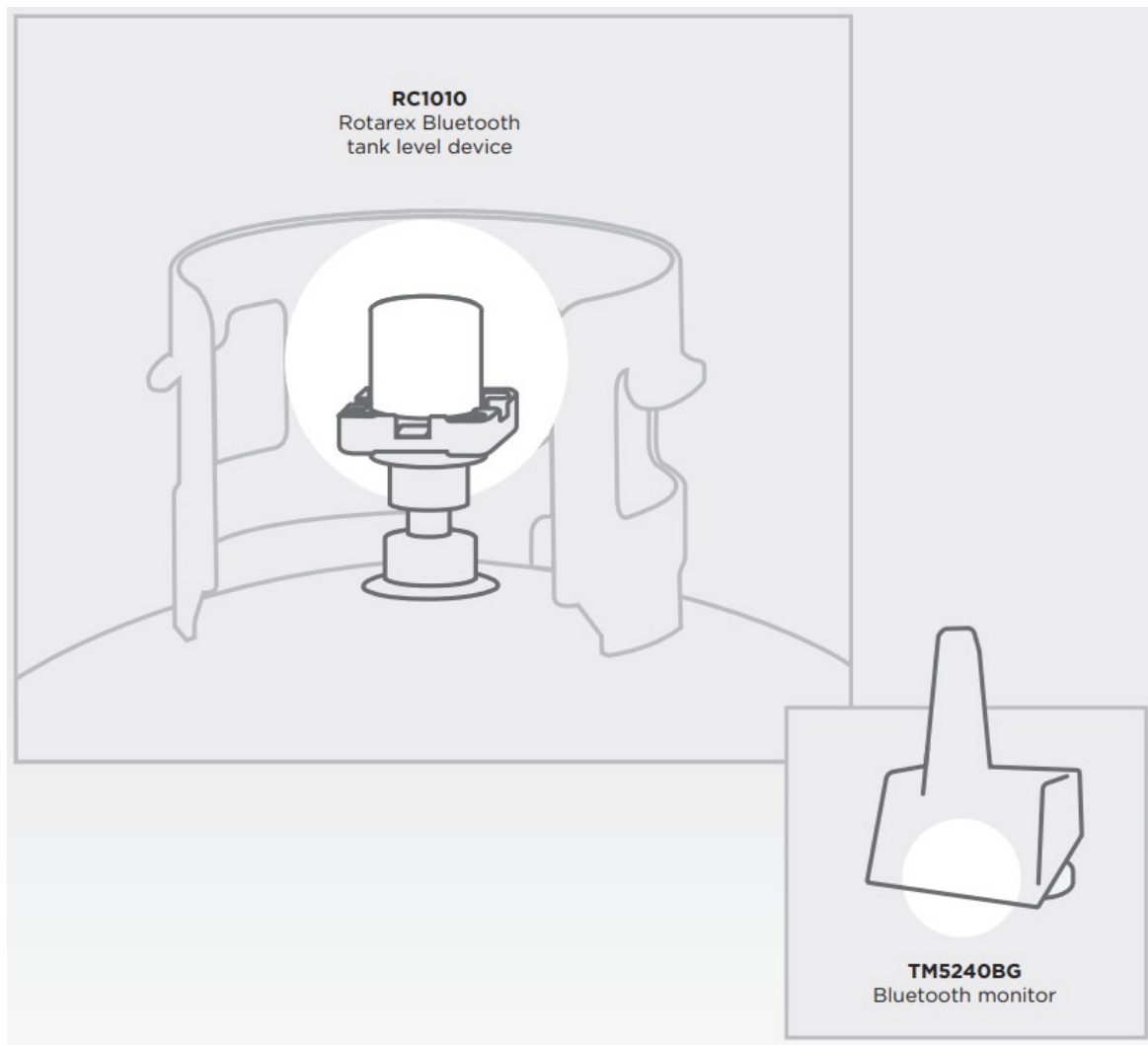
RC1010 is compatible with the following Rotarex probes:

Type 487

Stand-alone Tank/Container Level Sensors

Type 462

Cylinder Valves with Integrated level sensors



Installation Instructions

1. Start clean

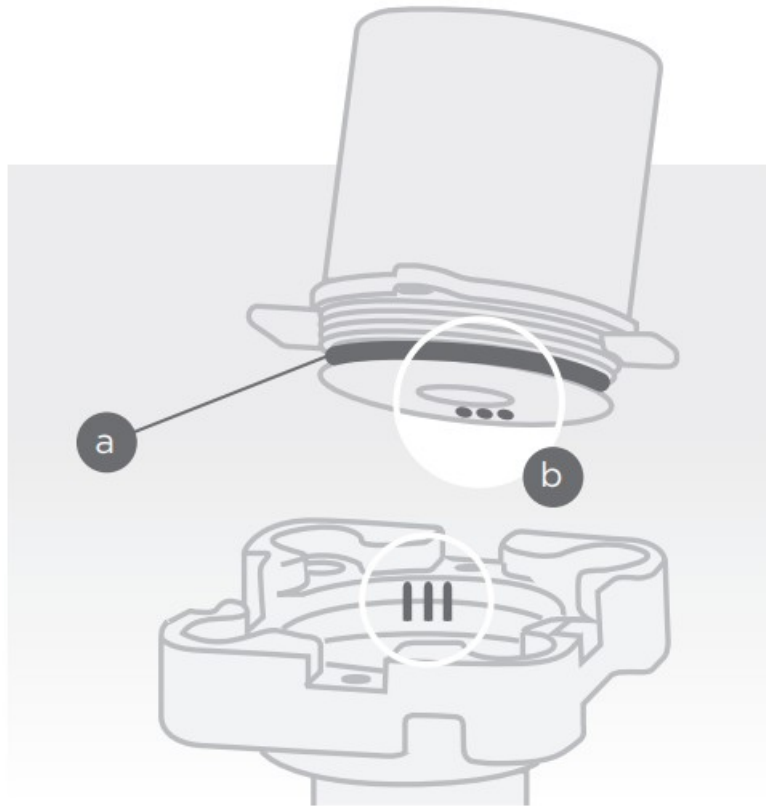
- Ensure the seat on the top of the probe is clean, and free of any dirt, grease, or debris.
- Locate the three contact pins in the seat and ensure they're straight and even.



2. Install the RC1010 device

- Verify that the O-ring is seated correctly to prevent water or dust infiltration between the devices.

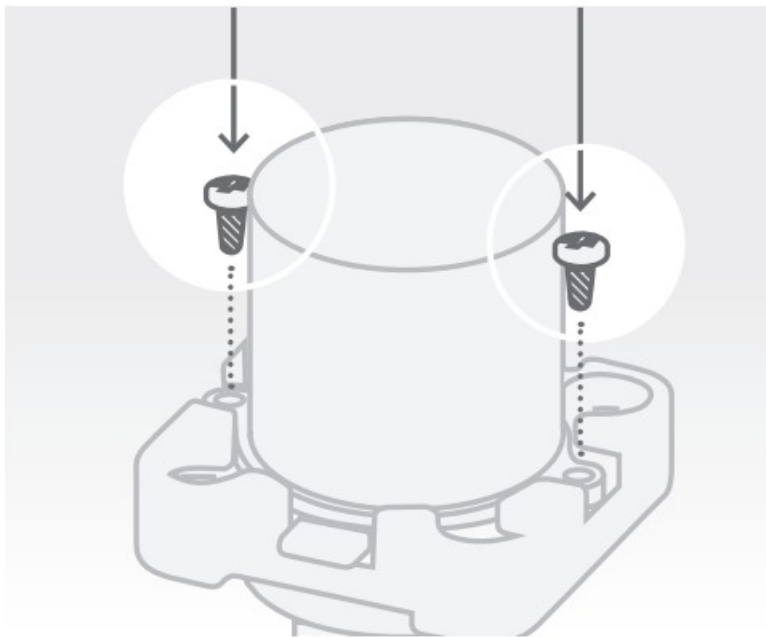
- b. Note the position of the three holes on the bottom of the RC1010 device and carefully align them to the three pins on the inside of the seat. The asymmetrical brackets will be aligned in their respective seats.
- c. To avoid damaging the O-ring, gently push the RC101 by alternating from the small asymmetrical bracket towards the large asymmetrical bracket, until the device is entirely seated (be careful not to misalign the device and damage the pins).



3. Secure the RC1010 device in place

Using the self-threading screws provided, secure the device in place by firmly pressing downward while turning the screws clockwise.

IMPORTANT DO NOT over-tighten the screws as this could damage the flange.

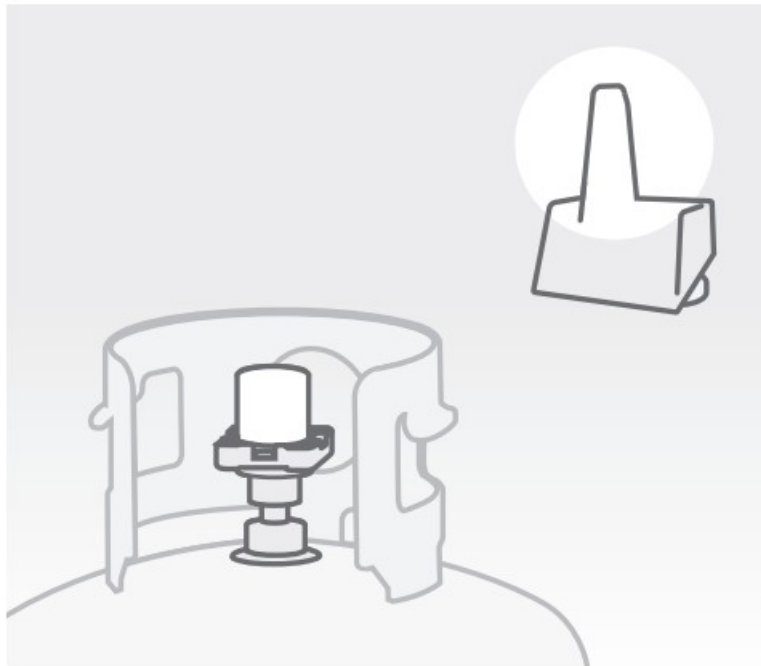


4. Install the TM5240BG monitor nearby

- a. First, locate an area no more than 25-feet from the RC1010 device to install your TM5240BG monitor.

Note: To ensure optimal signal strength, this area should be free of obstructions and with a clear view to the sky.

b. Install the TM5240BG monitor by magnetically mounting it to a flat, clean surface.



Members can watch step-by-step installation videos and shop online



Sign up free today otodatatankmonitors.com/membership

Members can purchase monitors and accessories like gauges, leads, mounting equipment and more via our online store.

IMPORTANT

Please take a moment to carefully read the installation instructions included with your monitors, and ensure you understand and respect local regulations.

ABOVE-GROUND TANKS Do not install monitors under lids.

UNDERGROUND TANKS Plastic lid suggested. Metal lids will obstruct signal.

Reading installation instructions will ensure maximum monitoring performance on all your tanks and installations.

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References

- [Membership | Shop Online | Otodata](#)
- [User Manual](#)