



## Installation guide/Operating instructions

### EcoCloud 3G & Webportal Tank24.info

Ultrasonic 3G liquid level monitoring for storage tanks with volume calculation every 24 hours

PROT-EC3G-IA-v1 (Status 08/2019)

#### PRIOR TO INSTALLATION please check the following:

1. Is it possible to install the sensor on the tank? Is there a fitting thread opening?
2. Do you have 3G coverage at your location? Please check it with your mobile phone.
3. Have following tank related data ready (in cm): max. fill height, max. volume, vertical distance between max. fill height and mounting height of the sensor

#### Installation notes!

- Avoid using tank nozzles higher than 5cm
- Please consider the security distance of 15cm between sensor and tank wall. (a basketball should fall through without touching the wall, also there should be no internal structures). Contact us in case of different conditions.
- The maximum measurement distance of the sensor is 4m from the sensor to bottom (0% level)
- The maximum displayable volume is unlimited, since it is calculated in the web portal.

#### The package includes

- 1 x Proteus EcoCloud 3G ultrasonic sensor
- 1 x Neoprene-gasket
- 1 x Adapter ring
- 2 x Screws (for attaching the adapter ring)
- 1 x Configuration data sheet with your tank data
- 2 x Barcode sticker
- 1 x Magnet (only in case of failure)
- 1 x installation guide



#### Correct installation of the sensor and tank type selection

##### Tank form

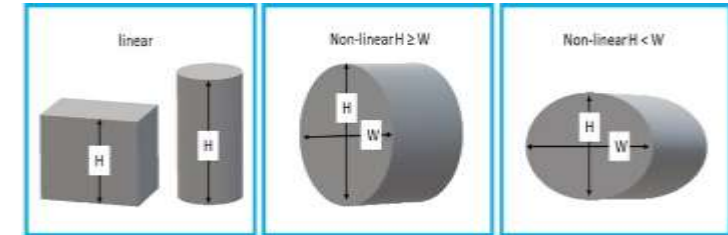
e.g. tanks welded within cellarage, battery tanks

##### Tank form B

e.g. horizontal cylindrical tank

##### Tank form C

barely used heating oil applications



#### Proteus EcoCloud 3G scope of applications

- Heating oil- and fuel tanks

#### INSTALLATION

##### Sensor mounting

Tanks with 1 1/4" and 1 1/2" thread openings:

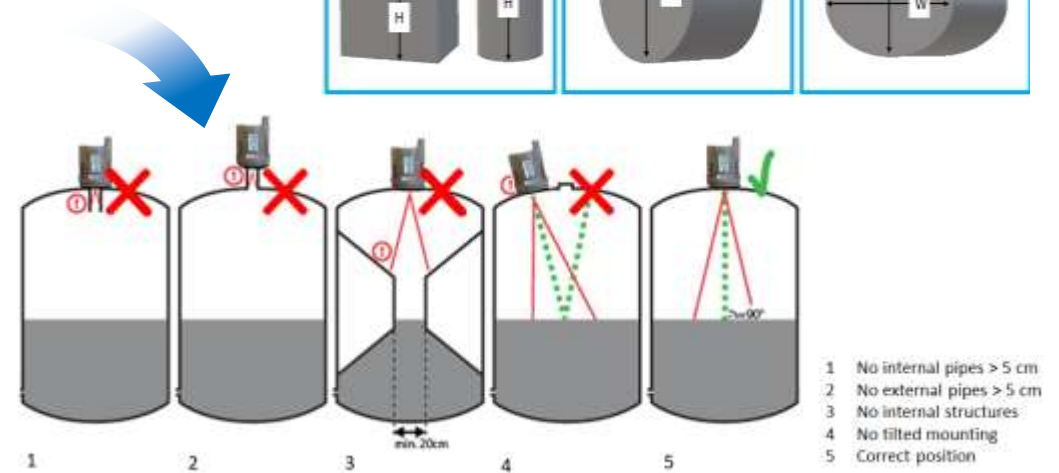
- Sensor has to be mounted with adapter ring
- Gasket 1 and 2 have to be placed as in Fig. 2, then screw in the adapter ring
- Mount sensor on tank

Tanks with 2" thread openings:

- Remove the adapter ring (Fig. 3) and the inner gasket of the sensor (Fig. 2, Nr.2)
- Place the neoprene gasket as shown in the picture (Fig. 2, Nr.3)
- Mount sensor on tank

Other tanks without thread openings (e.g. water tanks and cisterns):

After you have found an adequate mounting position for the sensor, drill a 47mm hole into the tank (preferably in the middle and at the highest point of the tank), place the weather gasket and mount the adapter ring with the supplied screws centrally above the hole. Screw the sensor into the adapter ring.



- 1 No internal pipes > 5 cm
- 2 No external pipes > 5 cm
- 3 No internal structures
- 4 No tilted mounting
- 5 Correct position



Fig. 1 – Sensor side view

Proteus EcoCloud sensor without adapter ring, side view

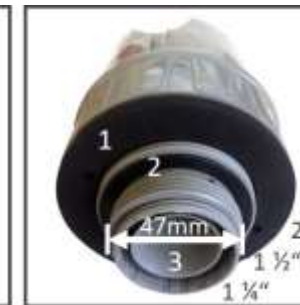


Fig. 2 – Sensor view from below

Proteus EcoCloud sensor without adapter ring, view from below:  
1 Neoprene gasket / (weatherproof)  
2 Inner gasket  
3 Sensor membrane



Fig. 3 – Adapter ring

Adapter ring from above



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#### ACCESS TO THE WEBPORTAL

The EcoCloud is delivered in a pre-configured state and is immediately ready to measure the liquid level in your tank.

Login-Site (Fig. 5)

<https://tank24.info>

User name

Your e-mail-address provided in your order

Password

The IMEI-number of your device

(the number on the barcode sticker on the back side of the sensor, Fig. 4)



Fig. 4

#### Webportal services

Following services are provided through the webportal:

- Display of the current liquid level in your tank (Fig. 6)
- Display of the level history of your tank for the last 30 days (standard interval)
- Modification and adaption of your tank parameters
- Add additional users
- Activate E-Mail / SMS - alerts & notifications (Current liquid level, low level, high level)
- When GPS transmission is activated: Map view of your sensor location

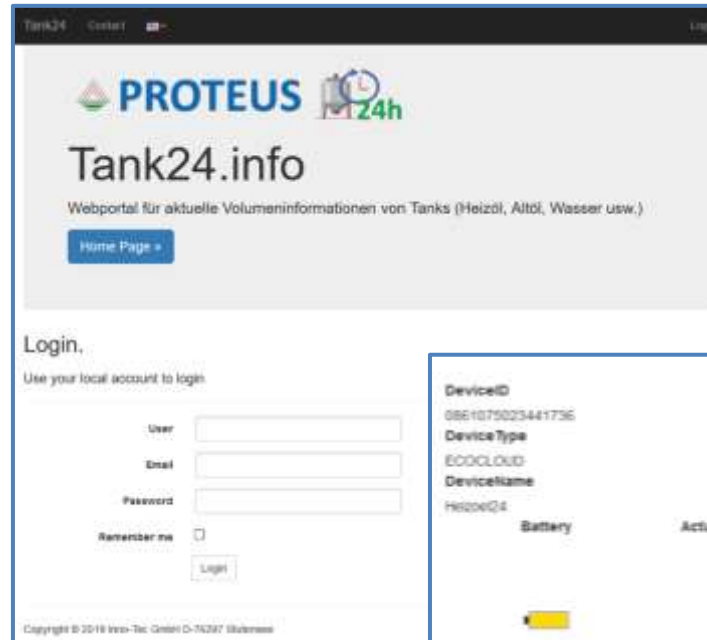


Fig. 5

#### ATTENTION!

1. Avoid using tank nozzles higher than 5cm
2. The maximum measurement distance of the sensor is 4m
3. Please note, that the sensor has a measuring cone of about 20cm and that this area has to be free from obstacles, so that the EcoCloud can measure the tank level correctly

3G signal:

With a mobile phone you can check if 3G mobile network is available at your location.

Without 3G network coverage, the EcoCloud is not able to send measurement data to the data server



Fig. 6