



Installation instructions/Operating instructions EcoCloud 3G / 4G NB-IoT & Web portal

Ultrasonic GSM Level indicator for storage tanks with volume calculation every 24 hours

PROT-EC3/4G-AR-v1 (Status 04/2021)

BEFORE INSTALLING THE SENSOR ON THE TANK

1. Can the sensor be installed on the tank? Is there a corresponding threaded hole?
2. Do you have GPRS / LTE reception on site, depending on the sensor ordered? Please check this with a smartphone.
3. Have the following dimensions of your tank ready: max. filling height, max. volume, distance max. filling height - mounting position sensor.

Notes on the installation situation!

- Avoid tank nozzles with more than 2cm height
- Please observe a safety distance of at least 15cm between the sensor and the tank wall. (E.g. a basketball must be able to fall down undisturbed and must not be deflected by fixtures, etc. in the case). Contact us for other conditions.
- The maximum measuring range of the sensor is 3m from the sensor to the ground (0% mark).
- The maximum volume displayed is unlimited as it is calculated in the web portal.

Included in the package

- 1 x Proteus EcoCloud 3G / 4G NB-IoT Ultrasonic Sensor
- 1 x Neoprene sealing ring
- 1 x Adapter ring
- 2 x Screws (for fastening the adapter ring)
- 1 x Configuration data sheet with your tank data
- 2 x Barcode Sticker
- 1 x Magnet (only required in the event of an error)
- 1 x these installation instructions



Fig. 1

Areas of application of the Proteus EcoCloud

- Fuel oil and fuel tanks
- Storage tanks with non-explosive liquids or chemicals
- Container with small volume changes / day

Correct installation situation of the sensor and tank type selection

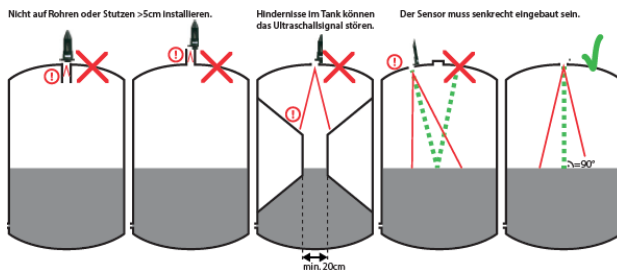


Fig.2

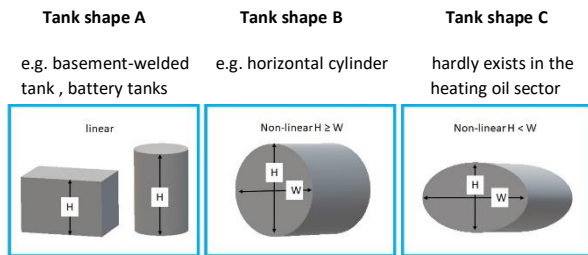


Fig.3

COMMISSIONING

Mounting the sensor

Tanks with 1 ¼" and 1 ½" threaded openings:

- Sensor must be mounted with adapter ring
- Place seals 1 and 2 as in Fig. 5 and screw on adapter ring
- Mount sensor on tank

Tanks with 2" threaded openings:

- Remove the adapter ring (Fig. 6) and the inner sealing ring of the sensor (2, Fig. 5)
- Place the neoprene seal (1, Fig. 5) as shown in the picture.
- Mount sensor on tank

Other tanks without a threaded hole (e.g. water tanks and cisterns)*:

After you have found an adequate place to place the sensor, drill a 47mm hole in the tank (preferably in the centre, at the highest point of the tank), place the weather seal and fix the adapter ring in the centre over the hole with the screws provided. Screw the sensor into the adapter ring.



Fig. 4 - Sensor side view

Proteus EcoCloud Sensor without Adapter ring, side view



Fig. 5 - Sensor view from below

Proteus EcoCloud Sensor without Adapter ring, view from below:

- 1 Neoprene seal/
Weather seal
- 2 Inner sealing ring

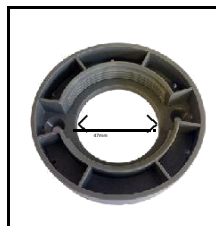


Fig. 6 - Adapter ring

Adapter ring from above



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- 3 Sensor membrane
- 4 1 1/4" Thread
- 5 1 1/2" (47mm) Thread
- 6 2" Thread

ACCESS TO THE WEB PORTAL

The EcoCloud is delivered pre-configured and is immediately ready to measure the level in the tank. In the default settings, the sensor sends data to the server once a day.

Login page

<https://e-sensorix.azurewebsites.net> or ecocloud.proteus-sensor.de

Username

Your email address that you provided when placing your order or see the enclosed invoice.

Password

See enclosed invoice.

By clicking on "OTHERS" you will see a list of the sensors assigned to you.

By clicking on "SETTINGS" you can enter the tank dimensions that correspond to your tank. In addition, you can activate an email alarm management so that you are proactively warned by email when the corresponding alarm thresholds are reached.

By clicking on "HISTORY" you can see the data of the last 30 days.

Notes

1. avoid mounting the EcoCloud on tank nozzles with more than 5cm height (Fig.1).
2. the maximum measuring range of the sensor is 3m.
3. please note that the sensor has a measuring cone of approx. 20cm and that this area (from the sensor membrane to the bottom of the tank) must be free of obstacles so that the EcoCloud can correctly determine the content in the tank (Fig. 1).

GPRS/LTE Signal

Using a mobile phone, you can determine whether a GPRS/LTE signal is available. Without access to GPRS/LTE networks, the EcoCloud cannot send measurement data to the Proteus data server.