Please read the instructions carefully before attaching the sensors to your tank

(Valid for Gobius with 1 sensor and with 3 sensors)

Gobius technology (patented)

Each sensor consists of two active parts; a shaker and an accelerometer. The shaker creates a vibration in the tank wall (it takes one second). At the same time the accelerometer measures the size of this vibration.

For this reason it is vital that the sensors are attached correctly. Please follow this instruction and do exactly according to our recommendations. If the sensors are attached in another way it is quite possible that the system will not work.
If you have any questions, you are always welcome to contact us on the phone or via e-mail at support@fmmarin.se.

The sensors may be severally damaged if they are subjected to physical shock, like being dropped on the floor, before they have been installed.
**Thus, please take extra precaution and handle the sensors carefully during the installation process.**

The sensors are to be attached to the level surface of your tank's vertical sides. On each sensor is pre attached VHB-tape (3M tape), which is developed for adhesion to stainless steel, steel, plastic (polyethylene) and fibre glass tanks. If the sensors are being attached to a fiber glass tank, you will first need to sandpaper a smooth and level surface where they will be placed.

Please visit our homepage www.fmmarin.se to read the latest news. Here you will also find a **Tank Calculator** which can help you find the correct placement on a non rectangular tank.

To achieve the best adhesion it is important that you follow the instructions below:

1. First, check the temperature. Ideally, the temperature should be at least **+20 degrees Celsius** (**68 Fahrenheit**) or higher when you attach the sensors to the tank. You may need to use a fan heater or a heat gun to increase the temperature in the tank wall.

2. Sometimes a tank wall curves in (concave surface). **Please do not attach sensors to a concave surface.** We suggest that you use a ruler to determine whether a tank wall is level, curving in or curving out.
A tank wall that is level or curving out (convex surface) is well suited to attach sensors to.

3. Use the provided 3M towel to clean the surface of your tank where the sensors will be attached. To improve the adhesion of the sensors VHB tape to plastic or painted tanks, we suggest that you use sandpaper to make the surface rougher.
On a fiber glass tank, you will first need to sandpaper a smooth and level surface where they will be placed.
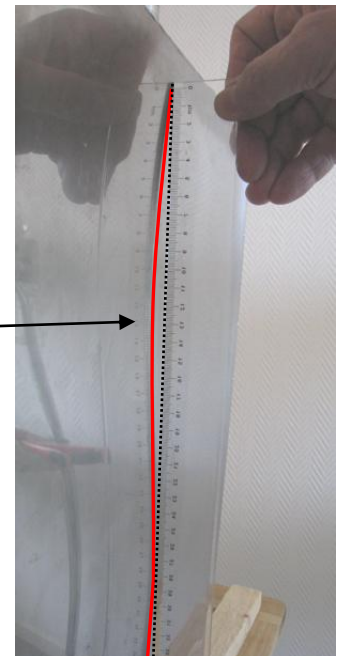
Minimum distance from an edge is 70 mm (2 ¾"),measured from the centre of the sensor (please see illustration below).
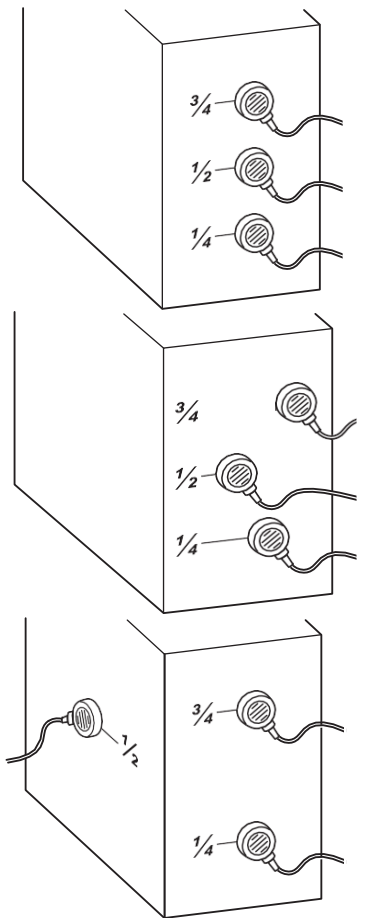
The sensor's ability to measure is not affected by the rotation of the sensor. Still, we recommend that the cable of the sensor is facing downwards or diagonally downwards as shown in the illustration below. Low metal tanks often have baffles inside the tank. These are often traceable via welding marks on the surface of the tank. Sensors should not be placed at these places. The distance required is the same as from an edge, i.e. 70 mm (2 ¾") from the center of the sensor. This is also the minimum distance to pipe connections.

The sensors may e.g. be placed at level; ¼, ½ and ¾. For Gobius ¾ level alarm the sensor would be placed at the ¾ level.
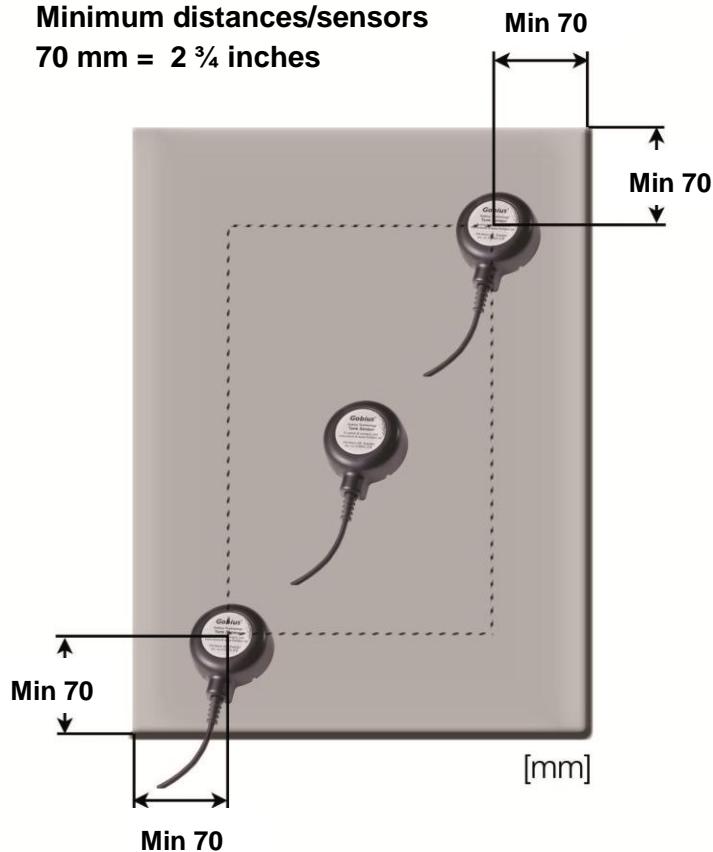
4. Carefully tear off the protection film from a sensor's VHB tape and press the sensor to the tank. Use your hand to press the sensor firmly to the tank wall for a few seconds.

5. **Do not touch the sensor for 15 minutes.** This will allow the VHB tape to harden.

6. Repeat step 5 and 6 for the remaining two sensors.

You decide at which levels you place the sensors. The panel's lamps are switched on when the level passes the corresponding sensor. If the liquid level is below the lowest sensor the lowest lamp is switched on. If the highest lamp is switched on the liquid level is above the highest sensor.

Please remember, in order for our warranty to apply the above mentioned routine must be followed.

Minimum distances/sensors
70 mm = 2 ¾ inches

Min 70

Min 70

Min 70

Min 70

[mm]

Lying round tank

3/4

33 % radius

33 % radius