

MAXIMIZE EFFICIENCY, REDUCE RISKS AND TAKE CONTROL WITH REAL TIME TANK MONITORING

Real-time insight in the filling level of your tanks offers major logistical advantages and the certainty that you're always one step ahead, tanks will never be empty again.

TankVision is an easy-to-use platform that continuously monitors and secures the filling level of your tanks. The filling level, tank pressure, temperatures and consumption can be continuously registered and reported with TankVision. An alarm can be sent immediately if one of the parameters is changing quickly. Integrations with your own Backoffice and/or logistics system is easy to implement. TankVision is an easy-to-use Plug & Play solution and can be used in all type of tanks.

- Complete solution Sensor & Gateway with platform
- Very high accuracy and reliability 24/7
- Easy to use plug & play for all types of tanks
- Low costs with very short payback period
- Simple integration with third party software
- Universal, also applicable for other sensors



AVIC TankVision®
Full control of your tanks

AVISION <[O]>

AN ACCESSIBLE PLATFORM ADAPTED TO YOUR WISHES

EASY CONFIGURATION

An important aspect of Tank Monitoring is to maintain an overview when large quantities of tanks have to be monitored. In TankVision you can easily add, move and remove (extra) tanks. Our online platform gives you many easy-to-use options to structure your tanks. TankVision is displayed in a tree structure. The complete overview of groups of tanks can be seen at a higher level in the tree. You can click through and go to specific tanks for more details. TankVision has a clear menu and is easy to configure.

TANK LEVEL SENSORS FOR EACH TANK

- Pressure sensors, are universally applicable for liquid levels and offer excellent accuracy, the sensors can be made in stainless steel or plastic
- Ultrasonic and lidar sensors are ideal for measuring distances and can work without contact. These sensors are used when a pressure sensor is not applicable
- Radar sensors are just like ultrasonic and lidar sensors able to measure distances. The advantage of radar sensors is the insensitivity to dust and the possibility to place the sensors outside the tank
- Load cells are the traditional way of determining weight and are often used in tanks with dry matter



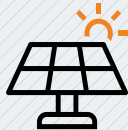
RELIABLE
AND SAFE



PLUG & PLAY



2-WAY
SIGNAL



SOLAR
ENERGY



ALARM



REPORT

AVIC TANKVISION

offers you a complete hardware and software solution that gives insight in the filling level of your tank(s) everywhere. Whether you have Mini Bulk or Bulk tanks, an IBC tank or an underground tank; TankVision is the solution! TankVision is an online platform and can be accessed via desktop, phone and tablet. Reports can be generated manually or automatic. The hardware is very reliable and accurate. Integration with your planning software is easily implemented.

- The hardware is universal, additional sensors can be connected. Such as extra pressure sensors, gas sensors or leakage sensors
- Any deviations in measured values can be sent directly via an alarm. The advanced alarm module gives you complete freedom how alarm follow-up should take place
- 24/7 access to the platform
- UPS provides security even in the event of a power failure.
- All measurements are continuously backed up. The data is stored in different locations to guarantee the highest possible availability
- Easy-to-use platform
- If you want to customize your personal dashboard, the platform offers various easy to understand customization options

TankVision stands for:

- User-friendliness
- Accuracy & Reliability
- Can be used anywhere and anytime

THE RIGHT GATEWAY FOR EVERY TANK

TankVision can be used with a range of different hardware options:

MiniGate

- Directly using 2G or 4G or indirectly via an RF connection Battery-powered option
- Possibility to connect two sensors
- MiniGate can continue to function for > 5 years on one battery

SolarGate

- Standard equipped with the following sensors - Temperature, Relative humidity, Air pressure Solar-powered option
- Possibility to connect six sensors

NanoGate

- Standard equipped with the following sensors - Temperature, Relative humidity, Air pressure Power-powered solutions
- Possibility to connect 2 sensors

BasicGate

- Standard equipped with the following sensors - Temperature, Relative humidity, Air pressure Mains powered solutions

LightGate

- Possibility to connect 4 sensors Monitoring Solution with light signal function.
- Your tank is also monitored with the LightGate. When the tank level is too low, the LightGate will immediately send a signal to TankVision and LightGate will show a light pattern to show operators there is a problem with the tank.

PicoWise

- Battery powered RF solution.
- The PicoWise hardware can be used for monitoring your tanks. This solution is ideal when there are several tanks in one location. With the PicoWise you only need one Gateway for a maximum of 50 tanks.
- does not send the data directly to TankVision but does this via a Mobile Gateway such as the SolarGate or the NanoGate. • Battery life > 5 years



The information about the level of the tank is sent to the data center using the LegioBox hardware and mobile data communication

TankVision is the cloud-based platform that gives you insight in the level of your tank and provides insight in how many liters or kilos are still available in the tank

WHAT DOES THE SOLUTION LOOK LIKE?

The content of the tank is measured with a sensor that best suits your tank and your product. The information from the sensor can be sent to the TankVision data center using the LegioBox hardware.

Depending on your tank, the following sensors are possible:

- Pressure sensors in stainless steel or plastic version
- Ultrasonic sensors
- Lidar sensors
- Radar sensors
- Load cells

We are happy to advise you. What type of sensors best suit your needs, together we will find the best solution! Does your tank already have sensors? Then the already-in-use sensors can easily be connected to the LegioBox hardware.

The LegioBox hardware takes care of the transfer of all measurements to the Cloud. The LegioBox hardware also measures various aspects of the environment such as Room temperature, Relative Humidity and barometric pressure and location determination with the aid of GPS. Optionally, energy meters, CO2 and particulate matter sensors can also be connected. The data connection with the server works completely independently and uses modern mobile networks (2G & 4G), LAN communication is optional. A UPS battery (optional) ensures continuous operation even in the event of a power failure. If you want to measure or monitor more in the vicinity of your tank, Avic has a large amount of IoT solutions which can be implemented.

Ask us for all the solutions. Also, The LegioBox hardware is available with various mounting options, making installation very easy. Contact us for more information. We are happy to start a "proof of concept" and find the most fitting solution for you.



IoT made simple.



Bulk Tanks



Mini Bulk
Tanks



IBC Tanks



Underground
Tanks



Avic

Molenwal 20a
5301 AW Zaltbommel
The Netherlands
T +31 418 674700
E info@avic.nl
W www.avic.nl

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