



SatSENS.fuel

Fuel sensor for theft control

Especially for trucks that are travel a lot and construction machineries that often placed in outlying areas the theft of fuel increases year to year. It is not always the loss of the fuel leads to lost revenue, rather the associated omission of the machine.

That is why we developed the *SatSENS.fuel* especially for monitoring the filling height of fuel tanks to detect and report those situations. Due to the very accurate measurement in the range of millimeters even small loss amounts can be detected.

Additionally we have also paid particular attention to the ease of installation. Therefore the installation will be carried out by sticking the sensor to the bottom of the tank. There are no holes or modifications of the tank necessary! This makes installation fast and cheap and still provides a maximum level of security.

Overview of strengths

- Fast and easy installation on the fuel tank
- No holes or modifications of the tank are necessary!
- Usable for all types of liquids and for all types of tank material
- High accuracy by measuring in millimeters
- Tamper proofed sensor due to special ultrasonic technique
- Compatible to devices of the *SatMOS®* family and third-party systems



Specifications

- Operating voltage: 5 - 36 V @ 50 mA
- Operating temperature: -40°C to +80°C
- Measuring range: 2cm to 99cm (optional 2,5m)
- Measuring accuracy: approx. 3mm depending on tank temperature
- Safety features: Moisture resistant, acid resistant, interference frequency tested, explosion tested, flameproof, vibration tested
- Anti-Explosionsklasse: Intrinsic Safety Exia II CT6 / Flameproof Exd II CT5
- IP-Schutzklasse: IP66
- Weitere Daten: Measurement of the tank in mm (real-time and average)
Specification of tank temperature for extended estimation
Monitoring and reporting on manipulations and errors

Connections

- Sensor and measuring unit are separate
- Up to four sensors at one measuring unit connectable
- Measurement unit includes serial interface for connection of external analysis or communication unit