

SatSENS.fuel

Theft of fuel is increasing from year to year, especially for trucks that are on the road a lot and construction machinery that is often parked in remote areas. It is not always the loss of fuel that leads to a loss of revenue, but rather the associated breakdown of the machine as it has to be refueled or cannot be used immediately.

The SatSENS.fuel was therefore specially developed to monitor the filling level of fuel tanks in order to detect and report such situations. Thanks to the very precise measurement in the millimeter range, even small losses can be detected.

Furthermore, special attention was paid to the ease of installation of the sensor. Installation is therefore only carried out by gluing it to the bottom of the tank, no drilling or modifications to the tank are necessary! This also makes installation quick and inexpensive and still provides a maximum level of safety.

Technical data

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, flame-retardant, vibration-tested
Anti-explosion class	Intrinsic Safety Exia II CT6 / Flameproof Exd II CT5
IP protection class	IP66
Further data	Measurement of tank height in mm (real-time and average) Indication of tank temperature for extended calculation Monitoring messages for tampering and errors

Connections

- Sensor and measuring unit separate from each other
- Up to four sensors can be connected to one measuring unit
- Direct serial interface for external evaluation / communication unit from measuring unit



Installation on the fuel tank
without drilling



High accuracy due to
measurement in millimeter range



Sensor tamper-proof thanks
to ultrasonic technology



Can be connected to devices
of the SatMOS® family