



## Non Intrusive Laser Level Sensor

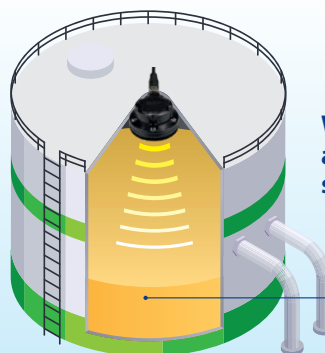
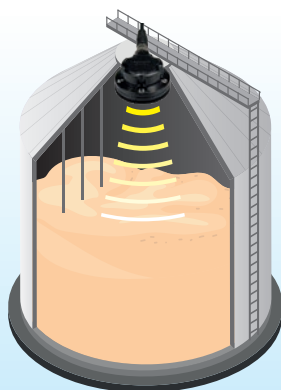
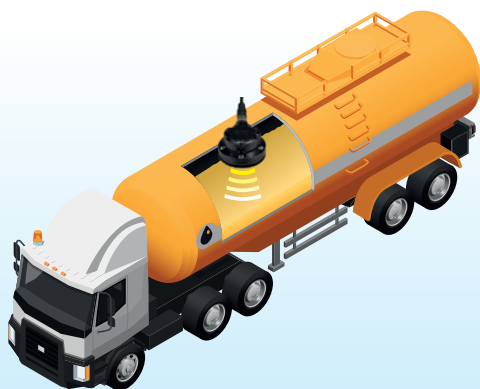


- **Easy non-intrusive installation**
- **Configuration via Bluetooth with App**
- **Digital filters based on Machine Learning**
- **Allows linearization for any irregular tank geometry**
- **Converts level into volume (liters, m<sup>3</sup>, gallons, etc.)**

**TL400** is a non intrusive level and volume sensor ideal for detecting liquids, grains, fluids and bulk solids in static and moving applications. It may be used for level measuring of tanks, reservoirs, wells, perforations, rivers and other compartments.

With a harmless pulsed laser beam it performs fifty measurements per second while an advanced algorithm calculates not only the exact level but also converts it to volume in liters or other desired units.

Specific calibration for a determined irregular tank can be easily achieved after installation in loco or at factory level (when desired) by the user by means of a versatile App on mobile devices through the Bluetooth communication.



**Works well with  
any liquid or  
solid materials**

WATER,  
FUELS, GRAINS  
OR POWDER



**ROBUST  
ENCLOSURE**



**IP68  
RATING**



**PRECISE UNDER  
AGITATION**



**HIGHLY ACCURATE  
0.1% FS**



**CALIBRATION VIA  
BLUETOOTH**



**MACHINE  
LEARNING**

For pricing or any further information, please contact Omni Instruments Ltd.



Measurement and data acquisition solutions

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## Applications

- Water tanks in homes and buildings
- Fuel tanks in automobiles, trucks, trains, tractors, buses, harvesting machines
- Static or mobile agro fertilizers tanks
- Yachts and sail boats water and fuel tanks
- Water reservoirs in buses, trains and ships
- Human presence detection in restricted areas
- Paints, varnishes, wine and vegetable oils tanks
- Food tanks and sanitary reservoirs
- Industrial coffee and washing machines
- Liquids and raw material under custody
- Industrial reservoirs management
- Underground fuel tanks in service stations
- Rivers and lakes water monitoring
- Sewage sludge and solids level detection
- Dangerous proximity detection and alert
- Protection in critical and dangerous areas
- Grains, solids and pasteous silos
- Critical material storage and transfer
- Ideal for mobile or static tanks

## Configuration via Bluetooth



## Technical Specifications

	TL400-V	TL400-I
<b>Range</b>	Up to 4 meters	Up to 4 meters
<b>Accuracy</b>	0.1% up to 1 m or 0.15% of FS up to 4 m	0.1% up to 1 m or 0.15% of FS up to 4 m
<b>Sampling rate</b>	50 measurements per second	50 measurements per second
<b>Stability</b>	Programmable dumping factor	Programmable dumping factor
<b>Tank Geometry</b>	Allows linearization for any irregular tank geometry	Allows linearization for any irregular tank geometry
<b>Output signals</b>	0.5 - 4.5 V (other upon request)	4-20 mA (other upon request)
<b>Connector Type</b>	SuperSeal (other upon request)	M12 (other upon request)
<b>Communication Interface</b>	Bluetooth	Bluetooth
<b>Configuration Software</b>	SigNow for Android, iOS and Windows	SigNow for Android, iOS and Windows
<b>Power Supply</b>	8 to 30 Vdc	8 to 30 Vdc
<b>Consumption</b>	15 mA	15 mA
<b>Electrical Protection</b>	Reverse polarity protection and current limitation	Reverse polarity protection and current limitation
<b>Dimensions</b>	66 mm diameter, 28 mm Height	66 mm diameter, 28 mm Height
<b>Assembly</b>	SAE 5 holes M6	SAE 5 holes M6
<b>Protection Level</b>	IP68	IP68

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