



Astles Ultrasonic Level Sensor and Tuning Fork Level Switch

Ultrasonic Level Sensor

Astles Ultrasonic Level Sensors provide a 4-20mA output to give a real-time reading of chemical storage tank levels. These sensors are suitable for small tanks with non-foaming, non-condensing liquids such as water, wastewater, acids, and oil.

Features

- Continuous non-contact level measurement up to 1.25m below sensor.
- 4-20 mA output for longer signal distances up to 300m.
- Configuration is fast and easy via software and our USB adapter.
- Narrow 2.5cm beam width and short 2.5cm dead band optimized for small tanks.
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids.



Specifications

Max Measuring Distance	1.25m
Accuracy	3mm
Resolution	0.5mm
Deadband	5cm
Beam Width	5cm
Memory	Non-volatile
Supply Voltage	24 V DC
Consumption	0.5W
Loop Resistance	400Ω max
Signal Output	4-20mA, two wire
Process Temp.	-7°C to 60°C
Temp. Comp.	Automatic
Ambient Temp.	-35°C to 60°C
Pressure	MWP = 30 PSI (2 bar)
Enclosure Rating	Type 6P, encapsulated, corrosion resistant and submersible
Enclosure Material	Polycarbonate
Transducer Material	PVDF
Cable Type	4-conductor, shielded
Cable Length	1.2m





Tuning Fork Level Switch

Astles Tuning Fork Level Switches are typically used as high-level switches to help prevent overflowing of storage tanks. They can also be used as low-level switches. For use in hazardous locations, the intrinsically safe ultrasonic level switch provides high or low liquid level detection of chemical, solvent, or low viscosity petroleum-based liquids with a 1A relay output. Process examples include hydrochloric acid, acetone, and diesel fuel oil. The submersible PP level switch sensor is universally mounted through the tank wall or inside the tank and connected to a PLC or relay controller.



Features

- Suitable for use in hazardous environments.
- Submersible polypropylene sensor for use with corrosive liquids.
- 60VA SPST relay selectable NO or NC via power supply wiring polarity.

Specifications

Orientation	Universal
Accuracy	± 1mm in water
Repeatability	± 0.5mm in water
Supply Voltage	12-36 VDC
Consumption	25 mA maximum
Contact Type	(1) SPST relay
Contact Rating	GP: 60 VA IS: 32 VDC @ 0.5A
Contact Output	Selectable NO/NC
Process Temperature	-40°C to +80°C
Pressure	10 bar @ 25°C, derated @ 0.113 bar per °C above 25°C
Sensor Rating	IP68
Sensor Material	PP
Cable Type	4-conductor, shielded
Cable Length	3m
Mount	¾" NPT

Ordering Information

500/3107	Ultrasonic Level Transducer 2-wire
500/3108	Tuning Fork Level Switch
Country of Origin: UK	

