

Intellia Liquid Level Sensors INT-LL1

(Truck, Generator, Bus... Fuel Tank/Water tank /Underground tank...)

Applications

- Fuel / Oil / Diesel/Gasoline
- Water tanks and reservoirs
- Underground fuel tank
- Auto, Truck fuel storage
- Rooter, railway engine
- Sealed Pressure tank

Characters

- Precise linear and temperature compensation
- Support local ZERO and SPAN calibration
- Surge, over-current and polarity resistant design
- Max 300 Degree C High Temp Liquid level measurement
- Up to 0.01mm resolution min 7mm Bottom blind Zone
- Simple installation without any settings
- Sensitivity and hysteresis fluently adjustable
- Applicable for various non-conductive liquids

Profiles

Intellia Liquid level sensors INT-LL1 are designed for liquid level measurements where the levels are lower than 3 meter, for instance the fuel tank of automobile.

Intellia Liquid level sensors INT-LL1 features threads mounting and flange mounting. Both of the models are made from 316 stainless steel. 316 stainless steel allows the transmitters to be suitable for harsh environments and various measuring medium, such as oil, fuels, or other media compatible with 316 stainless steel.

As capacitive working principle, there are no moving parts in the transmitters, so the transmitters can provide excellent reliability. It can be customized high temperature type sensor (300°C)

The smart capacitance level sensors capable of self-calibration. The user can realize the ZERO or RANGE self-calibration with two buttons or two lead lines to meet different requirements on various complex occasions. Each transmitter is factory calibrated according to the liquid type (or equivalent type)

Specified by customers so as to provide required accuracy.



Measuring range

Level range 0 to 100mm....0 to 3000mm

Materials

Wetted Parts	Standard	Option
Case and sensor	Stainless steel 304	316L SST/SUS321
Probe	PTFE	Brass

Specifications

Ambient Temperature: 25°C (unless specified)

Parameter	HPT621 Series		
Probe Diameter	Φ16 mm (standard)		
Overload	Standard atmosphere pressure or -1 Bar~10 Bar by customized		
Accuracy: (Linearity Hysteresis Repeatability)	≤ ±1.0%F.S; ≤ ±0.5%F.S; Optional		
Resolution	0.01mm; 0.1 mm(RS485)		
Blind Zone	10mm(Standard), 7 mm(min) by customized.		
Stability	Standard: 0.1%F.S/3 years, Max: 0.2%F.S/3years		
Medium working Temp	-30 °C to 85 °C Standard , -40°C~300°C by customized.		
Ambient Temp Span	-30 °C to +65 °C		
Storage Temp	-40 °C to +125 °C		
Materials of probe	304/316 stainless steel with PTFE/brass		
Electronic Wire	3 wires type but with another two wires for calibration	3 wires type but with another two wires for calibration	4 Wires Software for recalibration
Output	4-20 mA	0-5V	Rs485
Power Supply	11~33 V dc	12VDC or 11~33 V dc	11~33 V dc
Zero Temperature Drift	0.01%/20°C		
Temperature output	Suitable for CAN communication		
Electronic connection	Fixed cable by stainless steel cap and Explosion Proof and water proof IP67		
Process connect port	G1/2" male, M20*1.5 male, Flanges 2.5"... (by customized)		
Response time	First time starting time≈2s; working status≤200 ms Diesel,		
Medium compatible	gasoline; water and others liquid is customized		
Certificate approve	CE Certificate and Exia II		
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013; EN 61000-6-2:2005; EN61000-6-4:2007+A1		