FLUID LEVEL MEASUREMENT

- + Sensor Optimized for Fluids
- + User-Configured Parameters
- + Key Advantages of Lasers





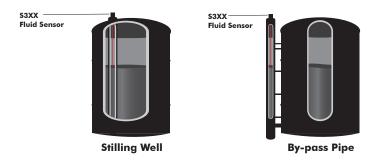
The Ultimate Sensor Engineered to Measure Fluids without Contact

After years of research and development, LTI has engineered the ultimate non-contact fluid measurement sensor specifically designed to directly measure fluids that are highly reflective, turbulent and with any dielectric properties.



Accurate and Repeatable Results

- Capable of generating accurate measurements on highly reflective surfaces, such as clear water
- Generates reliable results by stabilizing the reflections picked up by the receiver
- Collects consistent data by smoothing out the reflective peaks and valleys caused by fluids in random motion



The \$300-series can also be used with simple stilling wells and bypass pipes to measure fluids.

TruSense® S-300 Series:

- Outputs data in 4-20, 4-20 HART and RS232 formats
- Produces accurate results over long ranges
- Aligns the transmit/send lens with a built-in laser pointer
- Installs and configures easily

Feature Cased & OEM versions	Visible Alignment Laser	RS-232	4-20/ HART	Input/ Output Trigger
S-300		✓		✓
S-310	✓	✓		✓
S-330	✓	✓	✓	

Advantages Like No Other

- Provides instantaneous measurements that are very accurate, even over long ranges
- Avoids false echoes by creating a beam with virtually no spread that can be shot through narrow spaces or small-diameter stilling wells
- Provides a sensor that can be shot through protective screens and near flat walls
- Installs at the top of a well for easy mounting, access and maintenance
- Saves time with little to no required calibrations

Applications and Industries

- Water and Wastewater
- Chemicals Processing
- Food and Beverage



System Integrator Friendly

- Use the TruSense OEM versions
- Access application support
- Experience intuitive user interface software
- Configure your sensor with the Power/Comm cable



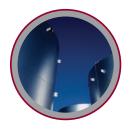
Ruggedized Enclosure

- Protects the sensor from contamination or damage
- Combines with a tank adaptor to fit most tanks/silos
- Meets the toughest industrial standards



Demo Program

Pre-qualified system integrators and end-users can have an opportunity to test a TruSense laser to confirm that LTI's pulse laser technology works in their specific application. Ask an LTI representative about our demo program.







Diffuser Lens

Use the optional diffuser lens to obtain accurate measurements directly to clear liquids





Tank Adaptor (air-purge ready) #7035146



4-In Flange #3004960

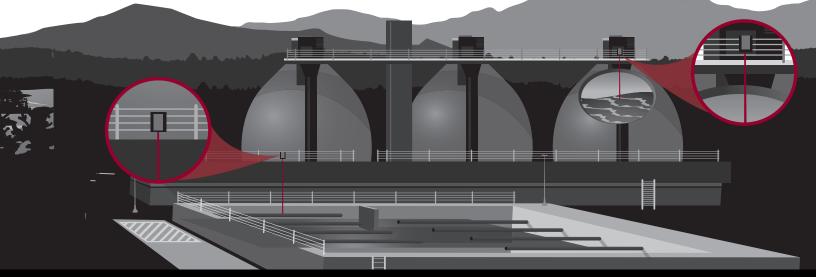


Dust Tube #3004957



Spanner Wrench #9034501





Sp	ecifications	TruSense S-300 Series		
O	Min Range	1.5 ft (46 cm)		
anc	Max Range	200 m; 50 m with diffuser lens option		
Performance	Accuracy	±4 cm		
erfo	Data Output Rate	<1 Hz to 14 Hz		
٩	Target Modes	First, strongest, last		
	Wavelength	905 nm (near IR)		
trical	Divergence	3 mrad (equal to 1-ft beam diameter @ 328 ft or 30 cm @ 100 m)		
Optical & Electrical	1/0	S-300 = TRIG, SDI-12, RS232 without alignment laser S-310 = TRIG, SDI-12, RS232 with alignment laser S-330 = 4-20, 4-20 HART with alignment laser		
otic	Baud Rate Min/Max	9,600/230,400		
Ö	Input Power	24 VDC		
	Current Draw	Measuring = 150 mA, Standby = 40 mA		
٥	Dimensions (L x W x H)	4.11 x 3.22 x 1.64 in (104.4 x 81.7 x 41.6 mm)		
Physical	Weight	Standard = 4.8 oz (138.6 g) OEM = 2.7 oz (76 g)		
	Housing & Frame Material	Glass-filled polycarbonate		
Environmental	Eye Safety	Class 1, 7 mm (FDA, CFR21) Class 1m (IEC 60825 - 1 : 2001)		
mu	Shock/Vibration	MIL-STD-810		
viro	Moisture	IP67		
ᇤ	Operating Temperature	- 20° to 140° F (- 28° to 60° C)		



Ruggedized Enclosure:

Weight: 8 lbs (3.62 kg)

Dimensions: 5 in diameter x 10 in

long (12.7 x 25.4 cm) Conduit Fitting: 3/4-in NPT

U.S. Ratings for Enclosure:

Division Ratings

Classified

Class I, Div 1 Groups B, C, D

Class II, Div 1 Groups E, F, G

Class III Type 4x

Zone Ratings

Class I, Zone 1, AEx d IIC

Ex d IIC

Class III

Type 4x

Approved Instrument Housing

Class I, Div 1 Groups B, C, D

FM 3615

Class II, Div 1 Groups E, F, G

Type 4x

Global Ratings:

ATEX (flameproof-DEMKO)

II 2G Ex d IIB+H2

II 2D Ex tD A20

IP66

IECEx (flameproof-UL)

Ex d IIB+H2





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