FLUID & SOLID LEVEL MEASUREMENT

- + Laser Sensors & Tank Adaptors
- + User-Configured Parameters
- + Key Advantages of Lasers
- + Technology Comparison Chart



Measurably Superior®

Laser Sensors & Tank Adaptors

Take your laser measurements to a whole new level with powerful, compact and affordable laser sensors from Laser Technology, Inc.

TruSense® S-230 & OEM

- Outputs data in 4-20, 4-20 HART and RS232 formats
- Aligns the transmit/send lens with built-in laser pointer
- Collects level data as often as you need it



Ruggedized **Enclosure**

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

Silo/Tank Kit

• Includes a terminal block

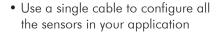




#7024897



Power/Comm/Configuration Cable











Tank Adaptor

(air-purge ready) #7035146



Spanner Wrench #9034501









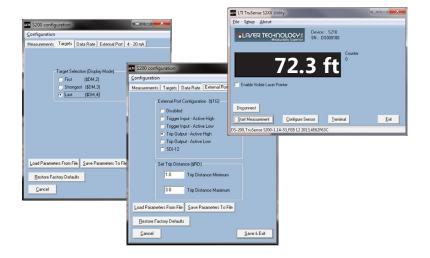
EVENT TRIGGERING Don't take any chances: Install a safety zone sensor that can trigger alarms and increase worker safety.



SPEED DETECTION Enforce safe speeds within your plant using a sensor connected to a sign displaying real-time values.

User-Configured Parameters

- Select the target mode that best fits your application
- Adjust the update rate for ideal efficiency
- Integrate the raw data into your control system for real-time measurement monitoring



Key Advantages of Lasers

- Easily identifies difficult targets such as non-reflective material and liquids
- Operates without the need of any calibration
- Unaffected by background noise and vapor pressure
- Handles low dielectric substances and acoustically absorbing materials



Technology Comparison Chart

Characteristic	Time- of-Flight Laser	Ultrasonic	Guided- Wave Radar	Through- Air Laser	Weight and Cable	Load Cells	Phose- Shift Laser
Non-Contact	•	•		•			•
Instant Response	•	•	•	•		•	•
Low Purchase Cost	•	•	•	•	•		•
Material Density Dependent	•						•
Unaffected by Material Buildup	•	•		•			•
Penetrates Airborne Particulates	•	•	•	•	•	•	
Range >75 m (246 ft)	•				•	•	
Easy to Install	•				•		•
Versatile (Multiple Applications)	•	•		•			



POSITIONINGAlways have a sense of where things are positioned thanks to LTI's long-range, non-contact measurement technology.



GUIDANCEEnsure efficient operations by using a precise laser sensor to guide equipment.



DETECTIONPosition an LTI sensor wherever you need to know if something is present or not.

Specifications		TruSense S-200 Series				
Performance	Min Range	1.5 ft (46 cm)				
	Max Range	400 ft (122 m); Range may be increased with user setting				
	Accuracy	0.1 ft (4 cm)				
	Data Output Rate	<1 Hz up to 14 Hz, depending on target				
	Target Modes	First, strongest, last, first-second-third, Last-second to last, irst-strongest-last, First-second-third-strongest-last				
Optical & Electrical	Wavelength	905 nm (near IR)				
	Divergence	3 mrad (equal to 1 ft beam diameter @ 328 ft or 30 cm @ 100 m)				
	1/0	S-200 = TRIG, SDI12, RS232 without alignment laser S-210 = TRIG, SDI12, RS232 with alignment laser S-230 = 4-20, 4-20 HART, RS232 with alignment laser				
	Input Power	12 VDC				
	Current Draw	Measuring = 150 mA, Standby = 40 mA				
Physical	Dimensions (L x W x H)	4.11 x 3.22 x 1.64 in (104.4 x 81.7 x 41.6 mm)				
	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 1 m (IEC 60825 - 1 : 2001)				
	Shock / Vibration	MIL-STD-810				
vird	Moisture	IP54				
m m	Operating Temperature	- 20° to 140° F (- 28° to 60° C)				



Ruggedized Enclosure Specs:

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

US 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

IP66 IEC60529



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