

LSU200 SERIES

ULTRASONIC LEVEL TRANSMITTER

FEATURES

- ⦿ Non-contact & Maintenance-free
- ⦿ Not effected by material property, such as pressure environments, viscosity and specific gravity
- ⦿ Integrated keypad with security code
- ⦿ Can be used in a versatile of application
- ⦿ Fully isolated analog 4-20ma output
- ⦿ Better accuracy and stability in difficult conditions
- ⦿ Internal temperature compensation improves accuracy
- ⦿ Available with level ,distance, volume measurements and pump control



INTRODUCTION

The LSU series Ultrasonic Level transmitter is a non-contact, highly reliable, and cost-effective solution for material level measurement. Designed for easy installation and minimal maintenance, it effectively meets a wide range of level measurement needs without making contact with the medium. This versatility allows the LSU series to accurately measure the height of various liquid and solid materials, making it ideal for a diverse array of applications across different industries.

SPECIFICATIONS

Measure Range	5m,10m (Optional)
Blind zone	≤ 0.35m
Beam angle	8° (range 5m),10° (range 10m)
Accuracy	0.5%FS
Display	OLED
Display resolution	1mm or 0.1%FS
Power supply	14~28VDC

Power consumption	5W
Output (optional)	4~20mA RL>500Ω (standard) RS485 2 relays (AC: 3A 250V)
Working temperature	-20~60°C
Storage temperature	-20~70°C
Relative humidity	(10~85)% (no condensation)
Temperature compensation	Automatic
Installation:	Thread / Flange
Ingress Protection	IP65
Measure type	Level / Distance

APPLICATIONS

Water Treatment Facilities: Including sewage, wastewater, and tap water treatment systems.

Storage and Containment Units: Such as silos, open tanks, dams, and wells.

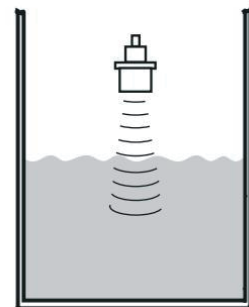
Food and Beverage Industry: Suitable for measuring liquids like edible oils, sauces, and beverages.

Chemical Materials: Including solvents, paints, carbonic acid, lime slurry, and wax.

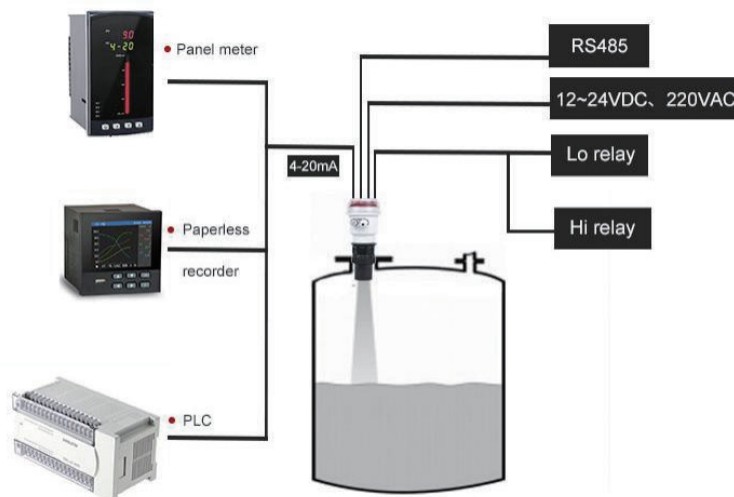
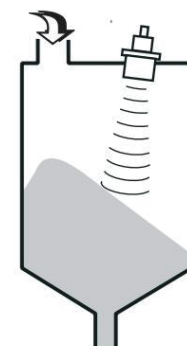
Granular Materials: Such as flour, wheat, and corn.

Petrochemical and Chemical Fiber Products: Including plastic powders, granules, and chips.

Liquid / Powder measurement



Measuring in agitator tank

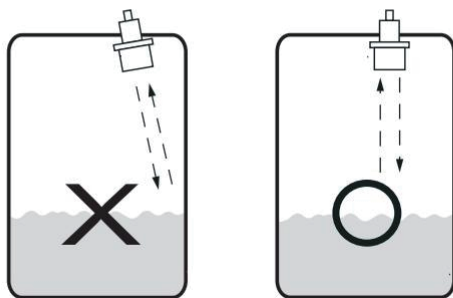


DISPLAY

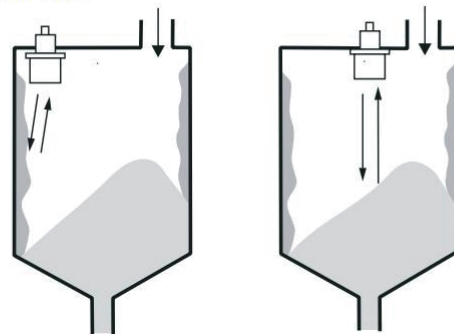
Level	Current	Temperature
10 21C 0.641 M	10 21C 05.61 MA	10 21C 20.9 C

INSTALLATION

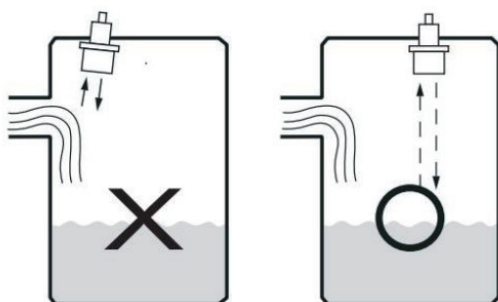
Keep transducer perpendicular to liquid.



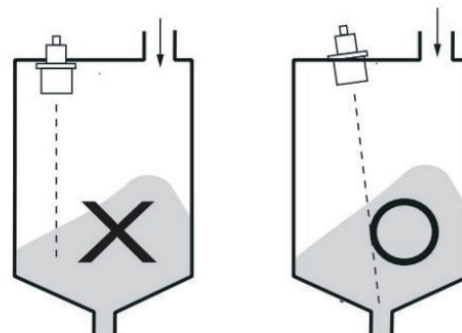
The transducer should not be mounted too close to the tank wall, the build-up on the tank wall cause false echoes.



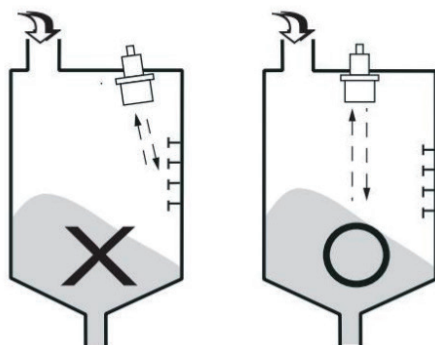
Mount the transducer away from the inlet to avoid false echoes.



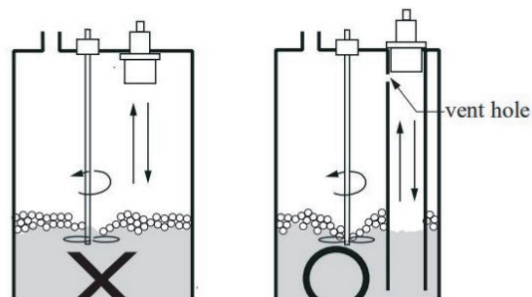
When you mount the transducer on the solid tank, the transducer must point to the tank outlet.



The transducer should not be mounted too close to the tank wall, the bracket can cause strong false echoes.



As is illustrated by the figure on the right, the transducer should be mounted on the top of guide tube to prevent the false echoes from turbulence and foam. The guide tube should come with a vent hole at top of the tube to allow the liquid vapor go out of the tube.



ORDER FORMAT

LSU200 - 10MACC2002

Range	Code
0-5 meters	5M
0-10 meters	10M

Power supply	Code
24VDC	DC
220VAC	AC

Code	Electrical connection
0	No alarm
2	2 alarms

Code	Communication
00	No communication
R2	RS232
R4	RS485

Code	Output signal
C2	4~20mA 2 wires
C4	4~20mA 4 wires

Example:

LSU200-10MACC2002, LSU200 series, measuring range 0~10 meters, power supply 220VAC, output signal 4~20mA 2 wires, no communication, 2 alarms output.