

# LTU43

Ultrasonic Transmitter - Hygienic Clamp Mounting  
w/4-20 mA 3/4 Wire System

## Product Features

- SS 316L Face Material c/w Hygienic Clamp (Tri-Clamp) Mtg. Base
- Simple push-button calibration (Accurate)
- Output 4-20 mA/20-4 mA (Isolated on 4 Wire Model's only)
- Built-in temperature compensation
- Optional RS232 or RS485 communications with calibration, diagnostics and data logging software
- PLC compatible
- Three and four wire operation

## Applications

- Food and Beverages
- Pharmaceutical /Water



## Technical Specifications

<b>Supply Voltage :</b>	12 to 30 VDC , 0.07 A max @ 24 Vdc R load = (Vs - 6)/24 mA	<b>Std. Sanitary Nozzle :</b>	
<b>Output :</b>	115 VAC or 230 VAC (±20%), 1.7 VA 4-20 mA / 20-4 mA	<b>Temperature:</b>	- 40 to 140°F (- 40 to 60°C) No Steam Cleaning (CIP)
<b>Maximum Load :</b>	(Vsupply – 6V) / 24 mA	<b>Maximum Pressure :</b>	1 bar
<b>Output Resolution :</b>	0.006 mA	<b>High Temp High Pressure Sanitary Nozzle Option :</b>	
<b>Accuracy :</b>	± 0.1% of max. span under controlled conditions ± 0.25% of max. span typically in the field	<b>Temperature:</b>	- 40 to 266°F(- 40 to 130°C) for 1/2 Hr. Steam Cleaning. Remove sensor for longer Cleaning cycle ,recommended. Not for Continuous Operation
<b>Beam Angle :</b>	10 to 12 degree at -3dB	<b>Maximum Pressure :</b>	5 bar max. using High Temperature & Pressure Sensor
<b>Loss of Echo :</b>	Hold for 1 min., 2 mA or 22 mA.	<b>Approvals :</b>	Intrinsically Safe approvals pending
<b>Temperature Compensation :</b>	Integrated in transducer	<b>Installation Category :</b>	Class II
<b>Calibration :</b>	Push button or programmable via optional communications port	<b>Optional Loop Powered Display :</b>	
<b>Conduit Entry :</b>	2x1/2" NPTF Conduit connection	<b>Display :</b>	4½ Digit LCD ½" high
<b>Enclosure :</b>	PVC-94V0	<b>Voltage Drop :</b>	0.95V @ 20 mA
<b>Sensor :</b>	Stainless Steel 316L	<b>Accuracy :</b>	Reading ± 0.5 %
<b>Ingress Protection :</b>	NEMA 6 (IP67)	<b>Humidity :</b>	0-95 % Non-condensing
<b>Operating Temperature :</b>		<b>Range:</b>	3.5mA to 22 mA 22 mA and above = LOE (Loss Of Echo)
<b>Ambient Temperature:</b>	-40 to 60°C	<b>Maximum current:</b>	150 mA

## Custom Builder

MODEL      1      2      3      4      5      6      7      8

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BOX1 CODE	Supply Voltage
A1	115 VAC (±20%), 1.7 VA
A2	230 VAC (±20%), 1.7 VA
D1	12 to 30 VDC 0.07 A max. @ 24VDC

BOX2 CODE	Output
A	4-20mA/20-4 mA

BOX3 CODE	Range
30	0.8- 30ft (0.24-9.1m)
20	0.8- 20ft (0.24-6.1m)
16	0.6- 16ft (0.18-4.9m)
09	0.4- 9ft (0.12-2.7m)

BOX4 CODE	Enclosure Type
PV2	PVC, 1/2" NPT x 2 conduits

BOX5 CODE	Process Connection
T15	1-1/2" Hygienic clamp (Max. 16' range)
T20	2" Hygienic clamp

\* For High Temperature/ High Pressure option add suffix "H" to code. E.g.: T20H

BOX6 CODE	Communication
0	None
A	RS232
B	RS485

BOX7 CODE	Options
0	Fixed Code

BOX8 CODE	Options
0	None
D1	Head Mounted LCD Display