



**FLOWLINE**

# LU SERIES

## ULTRASONIC LEVEL METER



### OPERATING PRINCIPLE

Ultrasonic Continuous Level Meter measures the distance up to the liquid surface from the propagation time that the sonic wave transmitted from its transmitter took to reflect back from the measuring surface to its receiver.

### FEATURES

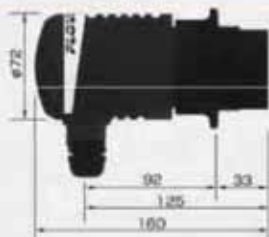
- Transmitter/Converter in one unit
- Measure from 150mm
- Narrow beam width
- Suited for corrosive liquids
- Fail-safe intelligence
- Built-in relay for alarm or feed/discharge water(LU30 only)
- Failsafe for echo loss

ULTRASONIC  
LEVEL TRANSMITTER

# ULTRASONIC LEVEL TRANSMITTER **LU**SERIES

## OUTLINE DRAWING/ WIRE CONNECTION

### ● OUTLINE DRAWING

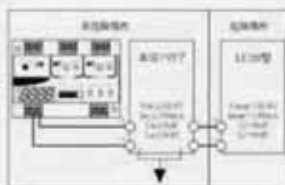


### LU20 IS TYPE

#### 1. Explosion proof system configuration

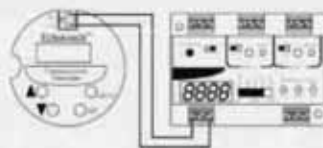


#### 2. Wire connection with controller



### ■ WIRE CONNECTION LU20 TYPE

#### 1. Wire connection with continuous controller (LC52)

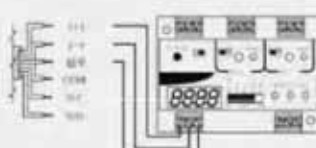


#### 2. Wire connection with two wire type (LU20-5001)



### LU30 TYPE

#### 1. Wire connection with continuous controller (LC52)



#### 2. Wire connection with two wire display (LU30-5004)



LU20 MODEL		LU30 MODEL	
LU20 IS	LU20 ES	LU30 IS	LU30 ES
Range	00	Range	00
00	00	00	00
005	05	005	05
010	10	010	10
014	14	014	14
019	19	019	19
024	24	024	24
029	29	029	29
034	34	034	34
039	39	039	39
044	44	044	44
049	49	049	49
054	54	054	54
059	59	059	59
064	64	064	64
069	69	069	69
074	74	074	74
079	79	079	79
084	84	084	84
089	89	089	89
094	94	094	94
099	99	099	99
100	100	100	100

(in mm)

## SPECIFICATION/ APPLICATION

Type	LU-20	LU-20IS	LU-30
Explosion proof	Non-EX	EX CSA	Non-EX
Measuring range	0.15 - 5.0m	---	0.15 - 7.5m
Accuracy	± 0.2% /FS	---	---
Resolution	5mm	---	---
Outgoing frequency	50kHz	---	---
Beam width	8°	---	---
Dead band	150mm	---	---
Display	4 digit LCD	---	4 digit LED
Indicated unit	Inch /cm	---	---
Supply Voltage	18 - 36VDC	---	14 - 36VDC
Power consumption	---	---	Max 200mA
Signal output	4-20mA (18 - 36VDC)	---	4 - 20mA (12 - 36VDC)
Output reversion	4-20mA - 4mA	---	---
Signal smooth rate	---	---	Fast slow
Set up	By key	---	---
Output relay	---	---	SPDT, 250VAC, 10A, 1/2HP
Relay indication	---	---	ON / OFF
Load resistance	900Ω (36VDC)	---	350Ω
Fail-safety	Revert to 4-20 or 22-4mA	---	Relay
Process Temp.	-20 - +100°C	---	---
Temp compensation	Automatic	---	---
Pressure rating	30psi/ 25°C (2bar)	---	---
Enclosure rating	NEMA4X /IP65	---	---
Enclosure material	Polypropylene	---	---
Transducer material	PVDF	---	---
Mounting spec	2G	---	---
Application	Sodium Hydroxide, Sewage, Resin, Wax, Alcohol	---	Sodium Hydroxide, Sewage, Resin, Wax, Alcohol, Other Industrial Fluids

## OPTION



LC52-1001, Continuous Controller, is able to relay-control in a more reliable manner. It is equipped with 2 relays and insulative/settable output of

## SPECIFICATION

Controller Name	Continuous Controller
Type	LC52 - 1001
Supply Voltage	90 - 130VAC / 180 - 260VAC, 50 / 60Hz
PWR Consumption	5W
Sensor voltage	24VDC
Input signal	4 - 20mA, 18VDC
Offset adjustment	By key
Span adjustment	By key
Outputs	① H or L alarm ② H and alarm ③ Control for feed/discharge water
LED indication	Power/output relay
Display type	4-20mA or set up
Barograph indication	4-20mA with set point
Alarm indication	Below 4mA - Amber Over 20mA - Red
Fail-safety	Fail-safety power
Relay output	① SPDT ② SPDT of Holding type
Output relay rating	250VAC, 10A, 1/2HP NO/NC selectable
Relay holding latch	ON / OFF
Delay timer	0 - 60 seconds
Continuous output	4-20mA, 12 - 36VDC
Process Temperature	-30 - +70°C
Enclosure spec	33mm DIN (EN 60 022)
Enclosure Material	Polypropylene (UL 94V0)

Nuclear Power Generation to Rice Milling  
All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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