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**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

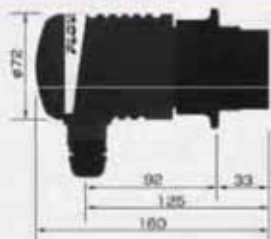
- Transmitter/Converter in one unit
- Measure from 150mm
- Narrow beam width
- Suited for corrosive liquids
- Fail-safe intelligence
- Built-in relay for alarm or feed/discharge water(LU30 only)
- Failsafe for echo loss

ULTRASONIC  
LEVEL TRANSMITTER

# ULTRASONIC LEVEL TRANSMITTER LU SERIES

## OUTLINE DRAWING/ WIRE CONNECTION

### ● OUTLINE DRAWING

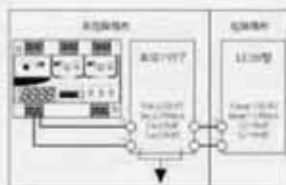


### LU20 IS TYPE

#### 1. Explosion proof system configuration

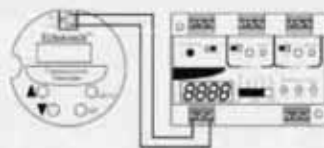


#### 2. Wire connection with controller



### ■ WIRE CONNECTION LU20 TYPE

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

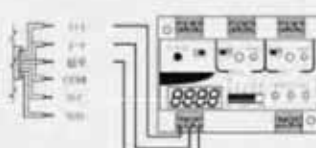


#### 2. Wire connection with two-wire type (LU20-500)



### LU30 TYPE

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



#### 2. Wire connection with two-wire display (LU30-500)



LU20 MODEL		LU30 MODEL	
Range	Radius	Range	Radius
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
104	104	104	104
109	109	109	109
114	114	114	114
119	119	119	119
124	124	124	124
129	129	129	129
134	134	134	134
139	139	139	139
144	144	144	144
149	149	149	149
154	154	154	154
159	159	159	159
164	164	164	164
169	169	169	169
174	174	174	174
179	179	179	179
184	184	184	184
189	189	189	189
194	194	194	194
199	199	199	199

(in mm)

## SPECIFICATION/ APPLICATION

Type	LU-30	LU-30IS	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°	---	---
Head lead	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	4-20/20 - 4mA	---	---
Signal smooth rate	---	---	Fast follow
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 20-4mA	---	Relay
Process Temp.	-20 - +100°C	---	---
Temp compensation	Automatic	---	---
Pressure rating	30psi/ 25°C (2bar)	---	---
Enclosure rating	NEMA 4X / IP65	---	---
Enclosure material	Polycarbonate	---	---
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/adjustable 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	3/8" DIN (EN 50 023)
Enclosure Material	Polycarbonate (UL 94V0)

代理店/Agent

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