

LULT

Ultrasonic Level Transmitter



OVERVIEW

Operation

LULT series Ultrasonic Level Transmitter; They are instruments used for level and distance measurements of liquid and solid fluids, measuring range can be adjusted up to 10 meters by the user. In addition to the standard 4-20 mA analog output, 0-10 VDC, RS485- MODBUS RTU and HART communication module and LCD display can be optionally selected. Thanks to the graphic display, threshold values can be monitored.

Application

- Electrical metallurgical food industry
- Petroleum
- Chemical industry
- Water treatment
- Papermaking

Features

- Easy installation
- Automatic temperature compensation
- Simple structure
- High accuracy
- Low power consumption
- Wide measuring range
- Non-contact measurement without any mechanical component. It is ideal applications for solvent hydrocarbon and petroleum
- Ability of measuring the level of liquid and solid
- Echo correction function
- Compact and remote display options



OPERATING DATA

Temperature Limit

-40...70°C

Inactive Area

< 0,3 m

Accuracy

±0.2 %

Beam Angle

0...6 m 14°

0...10 m 12°

Reversed Pol. Protection

Yes

Minimum Resolution

1 mm

Housing Protection

IP66/IP67/IP68

Hazardous Area

Ex d IIC T4 on request

Response Time

<1 sec.

Watchdog

Yes

Temperature Compensation

Yes

Connection

G1 1/2" (0-4 m and 0-6 m)

G2" (0-10 m)

DN100 Flange (0-20 m)

Display

Compact or remote LCD display

Pressure

-1...4 Bar

MATERIALS

Housing

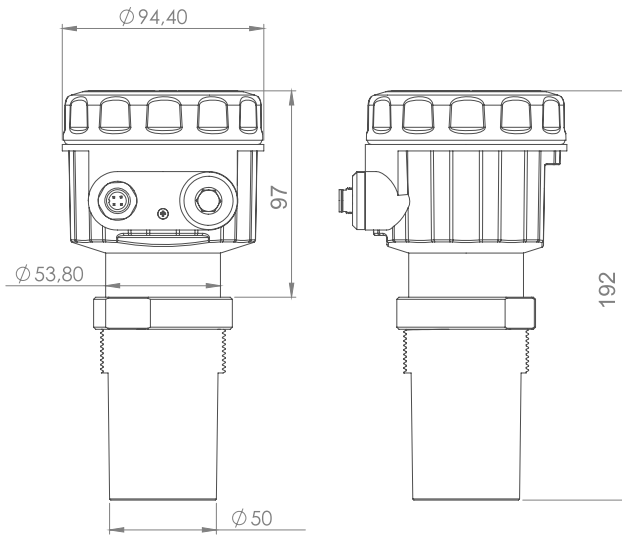
ABS, Aluminum

Sensor

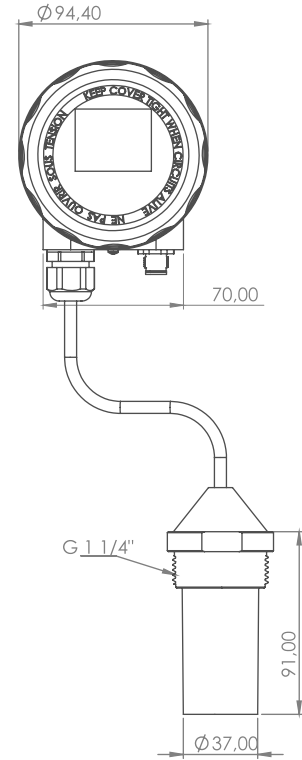
PP, PTFE, PVDF



TECHNICAL DRAWINGS AND DIMENSIONS



Compact Display



Remote Display

ELECTRICAL DATA

Output

4...20 mA or 0-10 VDC/ 2 additional relay

Power Supply

20...36 VDC, 220 VAC

Current Consumption

<50 mA

Maximum Load

750 ohm

Voltage Dropping

<3,5 V

Electrical Connection

M12 pin connector, PG connector

COMMUNICATION

On Request

MODBUS RS-485 HART



WIRING

+	-		A	B	+	-
20...36 V DC SUPPLY		GROUND	RS485 MODBUS		4...20 mA OUTPUT	

* 4...20 mA output: There must be an active connection

ORDERING

Model	
LULT	Ultrasonic Level Transmitter

Output	
S	4-20 mA
V	0-10 VDC

Relay Output	
N	None
1R	1xPNP NO/NC
2R	2xPNP NO/NC

Display	
C	Compact type
R	Remote type (please specify cable length)

Measuring Range	
04	0...4 m
06	0...6 m
10	0...10 m
15	0...15 m

Power Supply	
01	20-36 VDC
02	220 VAC

Sensor Material	
PP	PP
PT	PTFE
PV	PVDF

Body Material	
01	ABS
02	Aluminum

Enclosure	
01	IP66
02	IP67
03	IP68 (Remote type)

Communication	
N	None
M	RS-485 Modbus RTU
H	HART

Hazardous Area	
N	None
Xd	Ex d IIC T4
Xi	Ex ia IIC T4

