Technical Specification Document | *Approvals & Certifications:*



Ultrasonic Level Transmitter

TLU...

CE



Model TLU

Features

- Compact Size

- User Friendly menus
- Temperature Compensation
- Two-wire loop-powered
- Simple Installation & Maintenance
- RS232, RS485, Modbus
- Various output types
- High protection class
- Explosion proof type
- LCD display

Applications

- Sedimentation tank
- Sewage treatment
- Food industry (Winery, Granary etc)
- Electricity mining industry
- Petrochemical industry

Display



L=Level: from the bottom of storage to surface of the target

D=Distance: from the sensor bottom to surface of the target

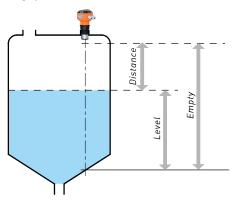
4.00mA=current value: The level corrosponding to the current value

Description

TLU is an ultrasonic non-contacting level meter which will increase the effectiveness of your liquid management process. It is designed its sensor and controller in one compact housing. TLU is two-wire loop-powered instrument and its measurement range is 5 meters. TLU menu makes the user easy and simple for calibration. All functions are optimized which enables you to effectively monitor the liquid level and keep your facilities running safely and reliably.

Principle of Operation

The sensor transmits ultrasonic pulses to the measurement target. The pulses are reflected from the surface of the target and received back by the sensor. The running time is converted in to the distance and it shows as level or volume on the display.



D=[C•T]/2 D: distance C: sound velocity T: time of flight

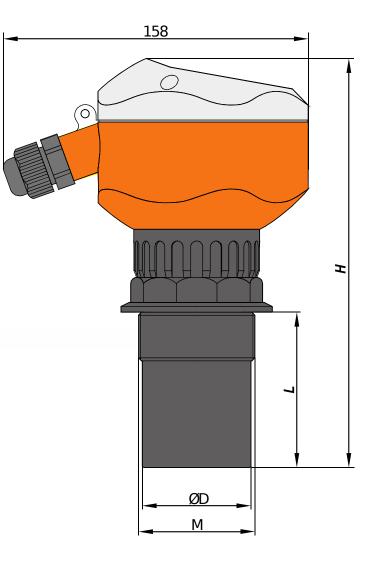
Distance: from the sensor bottom to surface of the target
Level: from the bottom of storage to surface of the target
Empty: from the sensor bottom to the bottom of storage

Technical Specifications

Measurement Type	Ultrasonic non-contacting		
Measuring Range	5m/10m/15m/20m/30m/40m/50m/60m/70m/		
Accuracy	0.25F.S, 0.5%F.S, 1%F.S		
Resolution	2mm or 0.1% of F.S		
Output Analog	4-20mA-2wire[load Resistance=510Ω]		
	4-20mA-4wire[load Resistance=250Ω]		
Output option	RS485, Relay/Alarm		
Power Supply	24VDC, 220VAC+/-10% option		
Display	LCD, 4-digit		
Display Units	mm, cm, m		
Dead Band	25cm[min.]		
Process Temp.	-20~+70°C(Sensor), -20~+60°C(LCD)		
Temp. Comp	-20~+60°C		
Pressure	<1bar		
Protection Class	IP65		
Process Mount	Screwing with thread M48x2 / M60x2 / M78x2/G2 or Flange		
Relay/Alarm Output(option)	Alarm for high and low level		
	AC 250V/8A or DC 30V/5A		
Weight	~3kg(not include cable)		

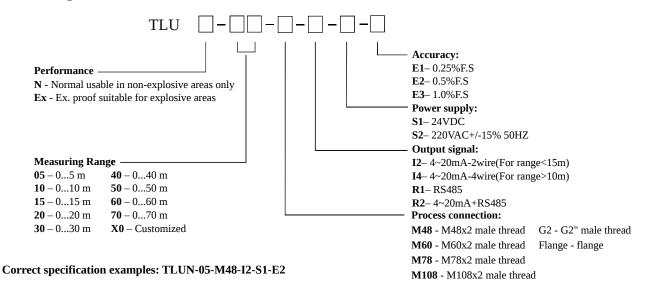
TLU: Ultrasonic Level Transmitter

Dimensions (in mm)



Process connection (M)	ØD	L	Н
M48x2	46	92	223
M60x2	56	80	210
M78x2	74	80	220
M108x2	104	115	210
G2	56	80	210

Ordering Code





Specifications are subject to change without prior notice

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