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Ультразвуковой уровнемер LR725L. Технические характеристики.



Integrated type



Separated type

Features

- Automatic echo menu, convenient to query the cause of on-site failure
- Wide measuring range, 1m ~ 50m
- Separated type with wide voltage power supply: 90V ~ 250V AC
- Good anti-interference performance
- Work under strong steam environment
- Probe protection level up to IP68

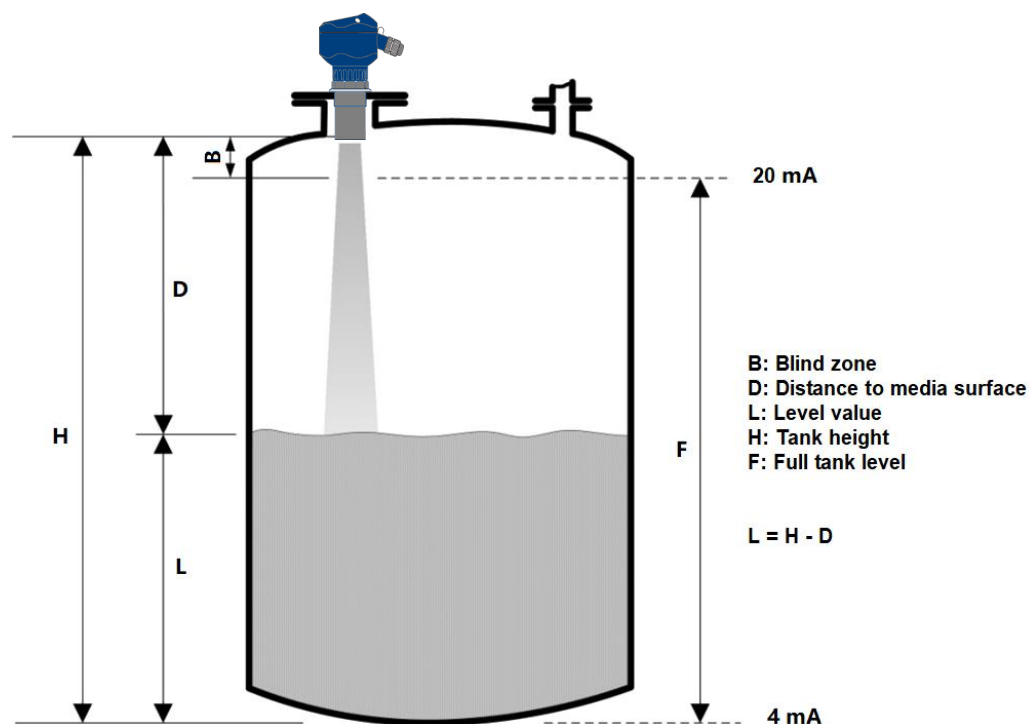
Introduction

LR725L Ultrasonic Level Meter (measuring material level and liquid level) is a non-contact, highly reliable, cost-effective, and easy-to-install and maintain level measuring instrument. It is a low-cost measuring equipment for measuring liquid, slurry, and solids on industrial sites and is widely used in water treatment, municipal administration, chemical industry, metallurgy, and machinery manufacturing industries.

Specification

- Level range: 5, 10, 15, 20, 30, 40, 50mH₂O
- Accuracy: $\pm 0.5\%FS \sim \pm 1.0\%FS$
- Resolution: 3mm or $\pm 0.1\%$ (max. value is valid)
- Display: English LCD display
- Analog output: 4mA~20mA DC (510 Ω load)
- Relay output: single channel is 2 groups; dual channel is 4 groups AC 250V/8A or DC 30V/5A state programmable (optional)
- Power supply: 220V AC ($\pm 15\%$, default)
24V DC 120mA (optional)
12V DC, 9V DC, battery powered (customized)
- Ambient temperature: display instrument -20 $^{\circ}C \sim 60^{\circ}C$,
probe -20 $^{\circ}C \sim 80^{\circ}C$
- Communication interface: RS485 RS232 optional
(manufacturer's protocol)
- Protection: Indicator IP65 (integrated type)
Converter IP65, probe IP68 (separated type)
- Probe cable: up to 100m without electromagnetic interference,
10m as standard (separated type only)
- Probe installation: according to range and probe selection

Measuring Principle



As shown above, the spatial distance D of the measuring medium surface is proportional to the travelling time T of the sound wave:

$$D = V \times T / 2 \quad (V \text{ is sound speed}).$$

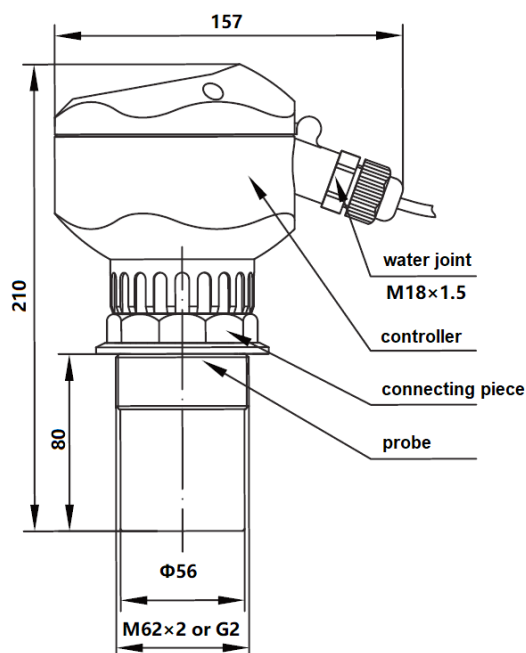
The distance E of the empty tank is known, the material level or liquid level L is:

$$L = H - D$$

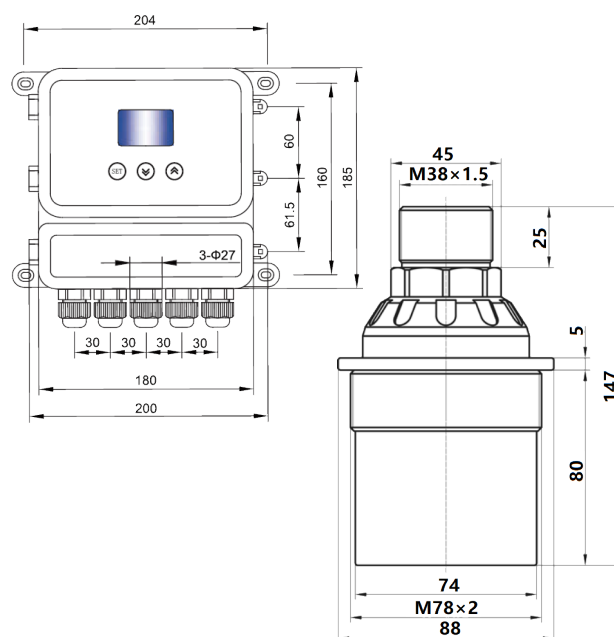
After setting the empty tank value, full tank value and other application parameters, the instrument electronic unit automatically converts the pulse travelling time T to the corresponding level value L and output the corresponding 4mA ~ 20mA DC signal.

Outline Construction (unit: mm)

Integrated type



Separated type



Order Guide

LR725L	Ultrasonic Level Meter														
	Code	Type													
	W	Integrated													
	F	Separated													
		Code	Type												
		YW	Ultrasonic liquid level meter												
		WW	Ultrasonic material level meter												
		CJ	Ultrasonic differential level meter												
		Code	Level range												
		--	2 numbers, eg: 05 is 5m, 30 is 30m.												
			Code	Probe material											
			A	ABS											
			E	PE											
			F	PTFE											
			V	PVDF											
			S	SS											
			T	Others											
				Code	Probe mounting dimension										
				A	M48×2mm										
				B	M60×2mm										
				C	M78×2mm										
				D	M108×2mm										
				E	M98×2mm										
				F	G1-1/2,Amajor diameter: Φ47.8mm										
				G	G2A,Amajor diameter: Φ59.6mm										
				H	1-1/2"NPT,Amajor diameter: Φ48.1mm										
				I	2"NPT,Amajor diameter: Φ60.1mm										
				T	Others										
					Code	Mounting methods									
					N	non flange mounting type									
					B	DN40 flange									
					C	DN50 flange									
					D	DN65 flange									
					E	DN80 flange									
					F	DN100 flange									
					G	DN125 flange									
				H	DN150 flange										
				I	DN200 flange										
					Code	Thread length of Extended probe									
						Null, standard probe									
					---	3 numbers indicate thread length (probe length included), unit: mm, eg: 100, indicating thread length of extended probe is 100mm									
						Code	Power supply								
						DCSP	12V DC, 9V DC, battery supply								
						DC	24V DC (4-wire)								
						AC	220V AC (4-wire)								
						TC	24V DC (2-wire)								
							Code	Relay quantity							
							R0	no relay							
							R1	1							
							R2	2							
							R3	3							
							R4	4							
								Code	Output signal						
								MA	4mA ~ 20mA DC						
								C2	RS232						
								C4	RS485						
								C2MA	4mA ~ 20mA DC +RS232						
								C4MA	4mA ~ 20mA DC +RS485						
								HTMA	4mA ~ 20mA DC +HART						
								TS	Others						
									Code	Probe quantity					
									S1	1					
									S2	2					
									SN	N					
										Code	Electronic housing material				
										PL	ABS				
										AI	Aluminum casting				
										F4	Polytetrafluoroethylene				
										S4	SS304				
										S6	SS316				
											Code	Probe cable length			
											00	no cables (generally for integrated type)			
											---	3 numbers, eg: 010 indicates probe with 10m cables			
											200	200 max. cable length is 200m			
LR725L	-W	-WW	-15	A	C	N	-	TC	R0	MA	S1	PL	00	The whole spec.	

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