LR725L Ultrasonic Level Meter



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 lowcost 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: ±0.5%FS~±1.0%FS
- Resolution: 3mm or ±0.1% (max. value is valid)
- Display: English LCD display
- Analog output: 4mA~20mA DC (510Ω 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 (±15%, default)
 24V DC 120mA (optional)

12V DC, 9V DC, battery powered (customized)

Ambient temperature: display instrument -20℃ ~60℃ ,

probe -20℃ ~80℃

Communication interface: RS485 RS232 optional

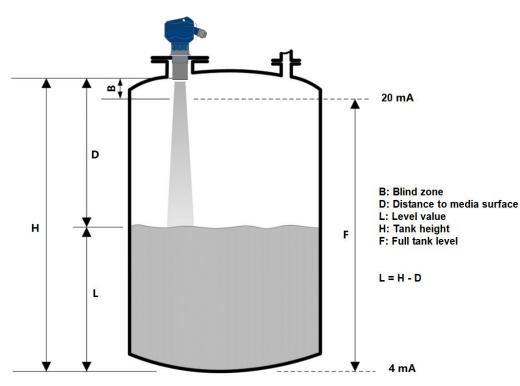
(manufacturer's protocol)

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



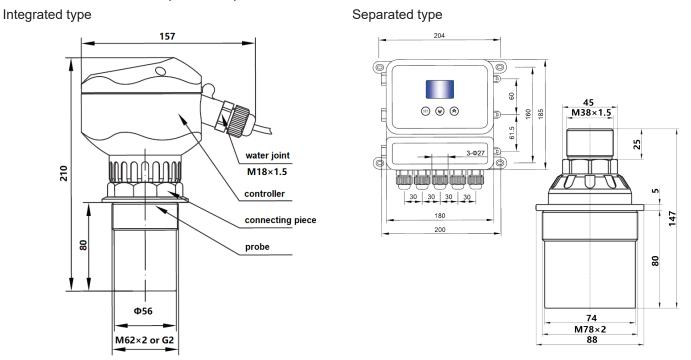
As shown above, the spatial distance D of the measuring medium surface is proportional to the travelling time T of the sound wave:

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)



MICROSENSOR

Order Guide

725L		nic Level I Type	vieter										
	W	Integrat	ed										
	F	Separate											
1		Code											
1		YW	Ultrasor		level mete								
		WW Ultrasonic material level meter											
		CJ	Ultrasonic differential level meter										
			Code				0 :- 00						
					bers, eg: 0		J IS 30m.						
				Code A	Probe r ABS	naterial							
				E	PE								
				F	PTFE								
				V	PVDF								
				S	SS								
				T	Others								
					Code			dimension					
					A	M48×2r							
							M60×2mm M78×2mm M108×2mm M98×2mm						
					D M10								
					F		Amajor diameter: Φ47.8mm						
1					G	G2A,An	najor diar	neter: Φ59.6	Smm				
					Н			or diameter:		im			
					1		Amajor di	ameter: Φ60).1mm				
					T	Others	Marrie	ng method					
						Code N		ng methods nge mountir					
						B	DN40 f		ig type				
						C	DN50 f						
						D	DN65 flange						
						E	DN80 f	lange					
						F	DN100						
						G	DN125						
						H		DN150 flange DN200 flange					
									angth of	Evtended n	rohe		
							Code Thread length of Extended probe Null, standard probe						
				3 numbers ind						te thread le	ngth (probe l	length included), unit: mm, eg: 100, ind	
						cating thread length of extended probe is 100mm						100mm	
								Code		r supply			
								DCSP			battery suppl	ly	
								DC AC		C (4-wire) AC (4-wire)			
								TC		C (2-wire)			
									Code				
								R0		no relay			
									R1 R2	1	1 2		
									R3	3			
									R4	4 Codo	Outtout at	nol	
										Code MA	Output sig		
										C2	4mA ~ 20mA DC RS232		
1										C4	RS485		
										C2MA		mA DC +RS232	
										C4MA		mA DC +RS485	
										HTMA)mA DC +HART	
										TS	Others		
1												Probe quantity	
1											S1 1 S2 2		
											SN N		
			1		1							Code Electronic housing material	
												PL ABS	
									1				
												AI Aluminum casting	
												F4 Polytetrafluoroethylene	
												F4 Polytetrafluoroethylene S4 SS304	
												F4PolytetrafluoroethyleneS4SS304S6SS316	
												F4 Polytetrafluoroethylene S4 SS304 S6 SS316 Code Probe cable length	
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