

GLT505

INTRODUCTION

The wireless submersible liquid level transmitter is a high-precision, low-power wireless liquid level detection instrument, which consists of input liquid level sensor, signal processing circuit, communication module and power module. It uses a high-capacity, high-energy lithium battery, radio frequency radio transmission data. Installation is simple, easy to use, no need site wiring, leaves out the conventional instrument wiring bypass trouble, save manpower and construction cost, especially suitable for unwired and unpowered application site, it is the ideal upgrade product of traditional liquid level transmitter.



FEATURES

- Built-in high precision liquid level sensor, high measurement accuracy
- Local three-button setting
- Ultra-low power consumption , 1s sending interval, 3 years battery life. (SWSN)
5s sending interval, 8 years battery life. (SWSN)
- LORA spread spectrum wireless transmission distance up to 5 kilometers (Sight Distance)
- 5 digits LCD Ultra-low power segment code display
- Timing send+Changes send
- Dual frequency redundant communication function (optional)

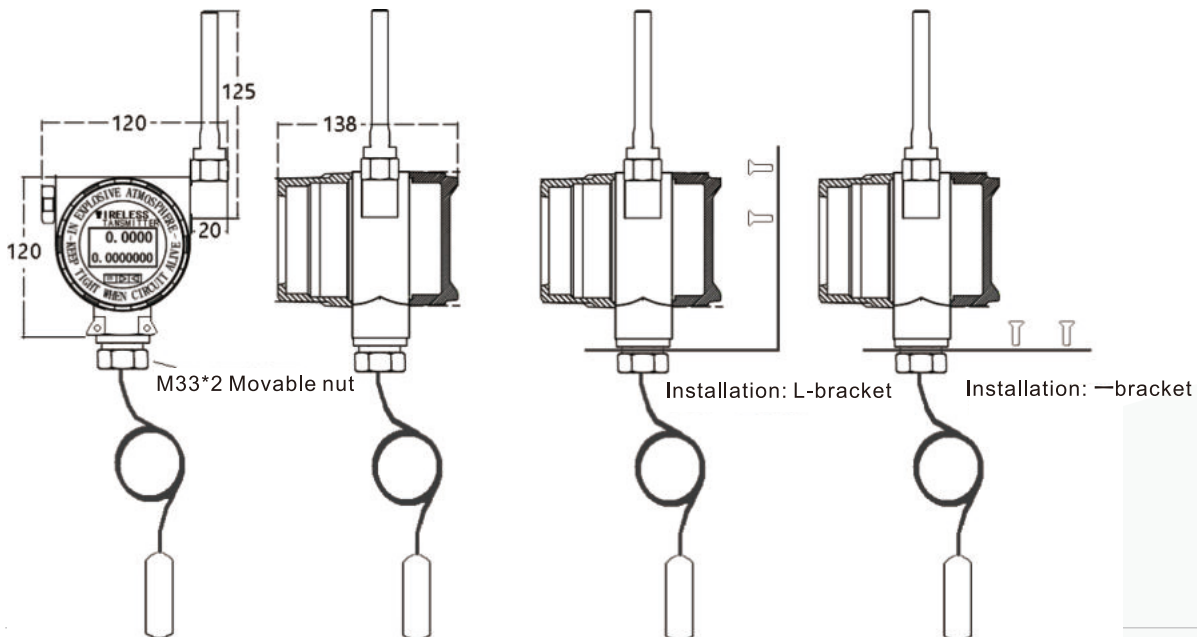
APPLICATION

- Line pressure monitoring
- Chemical Metallurgy
- Machinery, petroleum industry
- Paper making, pharmacy
- Power distribution inconvenience field
- Electricity, environmental protection and food industry

TECHNICAL PARAMETERS

Measurement range	0~1~200m						
Accuracy	Regular precision : $\pm 0.5\%$ F.S						
Resolution	0.01						
Wireless transmission	GFSK SWSN ; LORA ;						
Data upload interval	1-255s(GFSK) ; 1-255min(LORA) ;						
Data upload mode	Timed upload ; Changes upload(Changes limit can be set)						
Equipment working environment	-40~85℃; humidity 0~95%RH, no condensation						
Weight	About 1500g						
Host size	115*115*228mm (header of meter) ;						
Interface material	304 stainless steel、316 stainless steel						
Installation method	M33*2 thread、flange, etc						
Environment temperature influence	Total impact/28℃(50°F) \pm [0.08% range+0.015% upper range limits]						
Stability	$\pm 0.1\%$ upper range limits/1 Yr						
Protection grade	IP65 (header of meter)						
Battery parameter	Capacity 19000mAh voltage 3.6V						
Sending interval	0.25s	1s	2s	5s	1min	2min	10min
Battery life	1 Yr	3 Yrs	5 Yrs	10 Yrs	1 Yr	3 Yrs	8 Yrs
Wireless transmission	SWSN	SWSN	SWSN	SWSN	LORA	LORA	LORA
Testing condition : 20℃ 60%RH Lab Battery Self-Discharge Rate : <1%/Yr							
Radio parameters							
Wireless mode	SWSN			LORA			
Transmission distance(sight distance)	1000~2000m			5000~10000m			
Transmission distance(obstacles, reference)	50-250m			250-1000m			
Carrier frequency	430~470~510M 860~930M(customized)			430~470~510M 860~930M(customized)			

METER DIMENSION



ORDER GUIDANCE

GLT505	Wireless level transmitter									
	Code	Output signal								
	GF	SWSN GFSK wireless (sight distance 1000m)								
	LR	LORA wireless (sight distance 5000m)								
	Code	Range								
	01	0~1m								
	02	0~2m								
	03	0~3m								
	05	0~5m								
	10	0~10m								
	200	0~200m								
	Code	Wetted material	Cable		Probe					
	S1		Polyethylene		304					
	S2		Polyurethane		304					
	S3		Teflon		316L					
	Code	Process interface								
	1	M33*2 thread								
	TXXX	Flange(eg. DN50 PN10, ordering code is TDN50P10)								
	Code	Amplifier Housing								
	1	Cast aluminum alloy								
	Code	Electrical interface								
	7	1/2NPT F, two electrical interfaces with one blind plug (wired type)								
	9	M20*1.5 F, two electrical interfaces with one blind plug (wired type)								
	0	M20*1.5 F, an electrical interface with plug (No wire plug)								
	Code	Built-in display								
	D	Digital display								
	N	None								
	Code	Mounting brackets								
	N	None								
	L	Carbon steel spray plastic L-shaped mounting bracket								
GLT505	LR	05	S1	1	1	7	D	N		