

HWU32 Split Ultrasonic Level Meter(wall-mounted)-Datasheet



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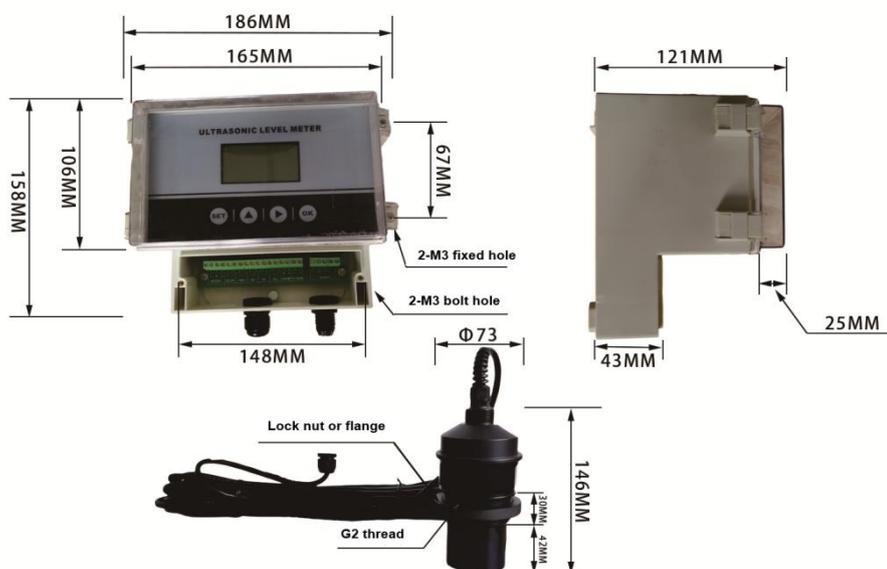
Product Overview

The operating principle of supersonic wave level meter is that the high-frequency supersonic pulse launched by the probe of transducer is reflected back when meets the surface of measuring medium, then a part of reflection echo is received by transducer and is transformed to electrical signal. Supersonic pulse travels at the speed of sound wave, and the time interval between launching supersonic pulse and receiving supersonic pulse is in direct proportion to the distance from transducer to the surface of measuring medium. The relation between the distance value S and the sound velocity C and the transmission time T can be expressed by the formula: $S=C \times T / 2$. As the launched supersonic pulse has a certain width, there is some overlap between reflected wave which within the small area close to the transducer and transmitting wave. The reflected wave within the small area close to the transducer can not be recognized, so there is no possible to measure the distance value. And this area is called measuring blind area. The size of blind area is related to the style of supersonic wave level meter.

Features

- .Adopt advanced microprocessor and unique Echo Discovery processing technology, suitable for various complicated working conditions.
- .The "false echo learning " function can correctly confirm the real echo and obtain accurate measuring result.
- .The built-in temperature sensor in the transducer can achieve the temperature compensation for measurement value.
- .Adopt the best acoustic configuration patented technology to improve signal intensity to achieve accurate measurement.

Structural Drawings(unit:mm)



Technical Parameters

Measuring medium	Liquid
Accuracy	0.25% ~ 0.5%
Measuring Range	5m,10m,15m, 20m, 25m
Blind zone	0.25m~0.6m
Process Connection	G1 thread, Flange
Shell Material of Energy Converter	PTFE, PVC,ABS
Ambient temperature	-30℃ ~ +60℃ (Please specify special high and low temperature environment customization)
Working pressure	Below 4 atmospheres
Analog output	4-20mA
Digital output	RS485 Modbus protocol or custom protocol
Power supply voltage	DC24V/AC220V,lightning protection device built-in
Resolution of ranging	1mm
Working pressure	Below 4 atmospheres
Display	LCD(Show liquid level or space distance)
Probe signal cable length	10meter
Protection grade	IP65 or IP68

Wire Connection

1	2	3	4	5	6	7	8	9	10	11
L	N	PE	+	-	NO.	Common	NO.	Common	NO.	Common
AC220V			DC24V		Relay-AHH		Relay-AH		Relay-AL	
12	13	14	15	16	17	18	19	20	21	22
NO.	Common	B	A	-	+	Blue	Yellow Green	Brown	Black	Copper
Relay-ALL		RS485		4-20mA		Sensor				

Ordering Guide

Item NO.	Type						
HWU32	Split type Ultrasonic Level Meter						
	Pressure Range	Temperature Range					
		(0-X)m	Fill out X directly				
			Code	Output Signal			
			B1	(4~20)mA			
			B7	RS485			
			B9	Relay			
				Code	Cable Length		
				001	10m		
			X	By customized			
					Code	Ambient Temperature	
					T	-30-60℃	
					X	By customized	
						Code	Power Supply
						V1	24VDC
V2						220VAC	
E.g.HWU32	(0~10)m	B1B7B9	001	T	V1V2		

Note:

Default output signal is 4-20mA+4 way relay+RS485;

The power supply is 24VDC and 220VAC co-existing, and you can choose one for use.

Please indicate measuring medium when order.