

# Level Measurement

## Remote version ultrasonic level meter



### Remote version

#### Overview

Remote version ultrasonic level meter is that the level meter's electronic unit (set parameters, display, the signal output) is separate from the ultrasonic probe, connected by cable each other, the ultrasonic probe is installed in the upper container, the electronic unit (i.e., host) can choose the installation location flexibly, in order to facilitate observation, operation.

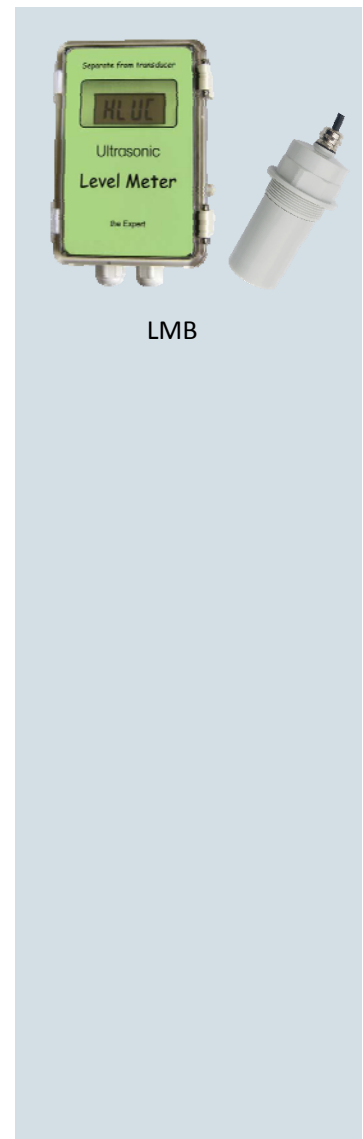
#### Benefits

- Separate probes are easy to install, host installation location is flexible and easy to operate.
- Ultrasonic probe using PVC or PTFE materials for a variety of corrosive conditions, sanitary type is optional.
- With the patents of Smart echo processing technology to ensure the accuracy and stability.
- Patented ultrasound probe structure with short blind range, high sensitivity, build-in with full range of automatic temperature compensation.
- Maximum length allowed for the probe cable 1000m, super anti-electromagnetic interference.
- 6 relays at most, MODBUS, HART, PROFIBUS-DP protocol, and other functions.
- Electric heating probe for cold regions.
- Can be flexibly customized according to customer demand.

LMB series Remote ultrasonic level meter, the use of imported host shell, compact and easy to install, commonly functional, economical and practical is preferred.

**Technical specifications**

● Model	LMB
● Measuring range	(0~40m)based on different types of probes
● Accuracy	0.2% Full span (In air)
● Output Current :	DC4~20mA
● Output Load :	0~500Ω
● Output Resolution :	0.03% Full span
● Mode of Indication :	4 Digit LCD/6 Digit LED
● Display Resolution :	1mm/1cm
● Switching Output:	2(high and low)(optional)
● Relay Type:	5A 250VAC/30VDC
● Serial Communication :	RS485(optional)
● Communication Protocol :	MODBUS
● Baud Rate :	19200/9600/4800
● Power Supply :	DC21V~27V 0.1A AC85~265V,0.05A
● Temperature compensation :	The whole range is automatic
● Temperature Range :	-40 °C ~ +75 °C
● Measure Cycle :	1.5second (tunable)
● Parameter set up :	3 induction buttons
● Cable Fix :	PG13.5/PG11/
● Crust Material :	ABS
● Protect Grade :	IP67
● Mode Installation :	Wall installation



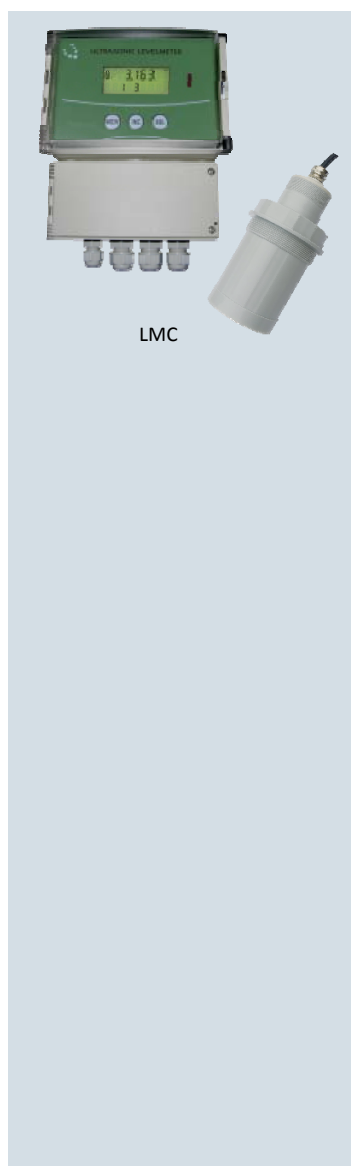
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### LMC Series

LMC series remote version ultrasonic level meter is fully functional, with optional multiple relays (6 pcs at most) and communication methods, multi-point measurement, which can also be customized according to customer demand the desired function. Can be equipped with easy to operate remote controller.

#### Technical specifications



● Model	LMC
● Measuring range	(0~40m)based on different types of probes
● Accuracy	0.2% Full span (In air)
● Output Current :	DC4~20mA (HART optional)
● Output Load :	0~500Ω
● Output Resolution :	0.03% Full span
● Mode of Indication :	14 Digit LCD in 2 rows with backlight
● Display Resolution :	1mm/1cm
● Switching Output:	2(high and low)(optional)
● Relay Type:	5A 250VAC/30VDC
● Relay No.	2 /4 /6 (optional)
● Serial Communication :	RS485(optional)
● Communication Protocol :	MODBUS/ PROFIBUS-DP )(optional)
● Baud Rate :	19200/9600/4800
● Power Supply :	DC21V~27V 0.1A AC85~265V,0.05A
● Temperature compensation :	The whole range is automatic
● Temperature Range :	-40 °C ~+75 °C
● Measure Cycle :	1.5second(tunableness)
● Parameter set up :	3 induction buttons
● Cable Fix :	PG13.5/PG11/PG9
● Crust Material :	ABS
● Protect Grade :	IP67
● Mode Installation :	Wall installation

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## Remote version ultrasonic level meter

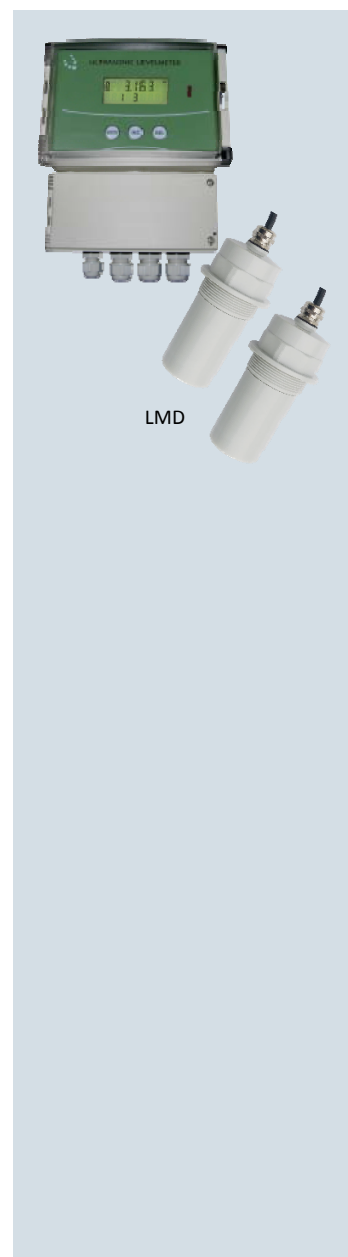


### LMD Level-difference Meter Series

LMD series level-difference meter is equipped with one host and two probes, the probes placed in the upper before and after every evil gate, measuring the levels and the host calculates the difference level value. Mainly used in a liquid level difference before and after the water conservancy facilities, such as sewage treatment plant's sedimentation tank, DAMS, etc.

#### Technical specifications

● Model	LMD
● Measuring range	(0~40m)based on different types of probes
● Accuracy	0.2% Full span (In air)
● Output Current :	Two ways outputs:DC4~20mA
● Output Load :	0~500Ω
● Output Resolution :	0.03% Full span
● Mode of Indication :	14 Digit LCD in 2 rows with backlight
● Display Resolution :	1mm/1cm
● Relay Output:	high or low alarm/control (Level or Level-difference)
● Fault Relay	Level fault detection alarm
● Relay Mode	Normal open
● Relay Type:	5A 250VAC/30VDC
● Relay No.	2~4
● Serial Communication :	RS485(optional)
● Baud Rate :	19200/9600/4800
● Power Supply :	DC21V~27V 0.1A AC85~265V,0.05A
● Temperature compensation :	The whole range is automatic
● Temperature Range :	-40 °C ~+75 °C
● Measure Cycle :	1.5second(tunable)
● Parameter set up :	3 induction buttons
● Cable Fix :	PG13.5/PG11/PG9
● Crust Material :	ABS
● Protect Grade :	IP67
● Mode Installation :	Wall installation



LA series remote version probe has a number of patented technologies, a variety of ranges and materials to choose from. To meet the cold regions application the electric heating probes can be chosen. The probes can be applied to different application environments, and can be customized to customer special requirements of the install size. Probe cable can be customized up to 1000m, super anti-jamming capability.

### Technical specifications



● Measuring range	(Liquid) LA4:	4.00m (Dead Zone:0.20m)
	LA6:	6.00m (Dead Zone:0.25m)
	LA8:	8.00m (Dead Zone:0.30m)
	LA12:	12.00m (Dead Zone:0.50m)
	LA20:	20.00m (Dead Zone:0.80m)
	LA30:	30.00m (Dead Zone:1.20m)
	LA40:	40.00m (Dead Zone:1.50m)
<b>Effective rang of solid material level is 50% of liquid's</b>		
● Accuracy	0.2% Full span (In air) The whole range is automatic	
● Temperature compensation :	-40 °C ~75 °C (LCD : -20 °C ~+70°C)	
● Temperature Range :	±0.1MP (press definitely)	
● Pressure Range :	8°(3db)	
● Beam Angle :	1.5second (tunable)	
● Measure Cycle :	PG13.5/M20/ ½NPT	
● Cable Fix :	Ø 6-12mm	
● Cable :	ABS/PVC/PTFE	
● Sensor Material :	IP68	
● Protect Grade :	Resistant to strong corrosion	
● Corrosion resistance	10m(can be extended to 1000m by order)	
● Probe Cable Length	Probe lengthened or choose electric heating	
● Installation in cold regions	Whorl/Flange/Frame	
● Mode Installation :		

### Remote Version Level Meter Selection Guide

	Range	Input Power	Input Current	Output Current	Relays	Communication	Sisplay Mode	Shell Material
<b>LMB</b>	Min 4m,Max 40m	DC24V(10%) AC85~265V	DC 0.1A AC 50mA	DC4~20mA	2	modbus	4 & 6 digital LCD	ABS
<b>LMC,LMD</b>	Min 4m,Max 40m	DC24V(10%) AC85~265V	DC 0.1A AC 50mA	DC4~20mA or with Hart	2、4、6	Hart、modbus、 profibus	14 digital LCD in 2 rows with backlight	ABS