



Recorder



Flow



Pressure



Temp



Analyzer



Level

## Datasheet

### Ultrasonic level transmitter

### SUP-ULS-B

**Supmea<sup>®</sup>**

Committed to process automation solutions

Tel: 86-15158063876

E-mail: [info@supmea.com](mailto:info@supmea.com)

[www.supmea.com](http://www.supmea.com)

## Datasheet

### Ultrasonic level transmitter SUP-ULS-B

Ultrasonic level meter (measurement of liquid level/material level) is a non-contact, high reliability, cost-effective, easy-to-install and maintain liquid level/material level measuring instrument. It can meet most liquid level/level measurement requirements without contacting the measured medium. It is a new generation of ultrasonic level gauge with completely independent property rights of our company.

#### Applications

- Fire water tank
- Deep well water level
- River reservoir
- Engineering pool
- Sewage/waste water
- Chemical material

#### Features

- Simple operation
- Remote type with touch buttons improves the quality of human-computer interaction
- Fault self-diagnosis technology, realize real-time fault self-diagnosis
- A variety of working conditions algorithm selection, improve environmental adaptability;
- High measurement resolution
- Fast response, the fastest response time:2 seconds;
- Automatic temperature compensation



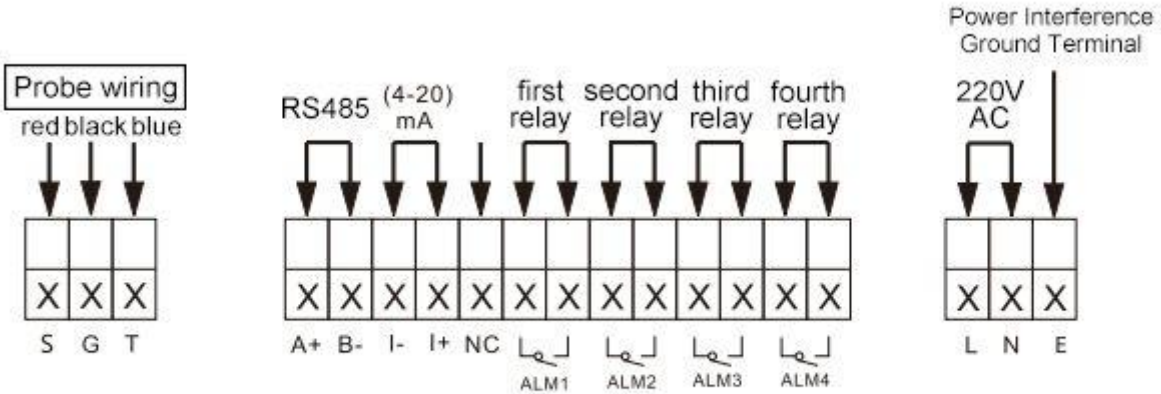
**Ultrasonic level meter**

#### Principle

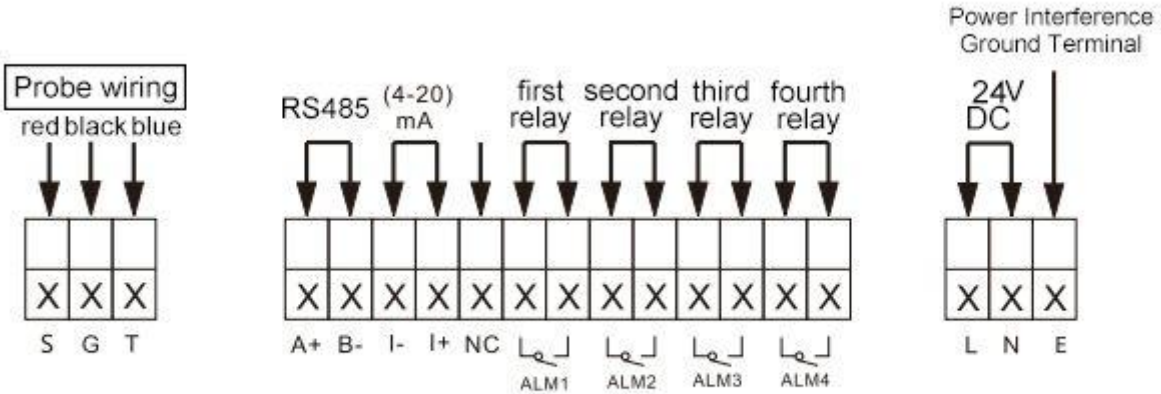
SUP-ULS-B utilizes the reflection of ultrasonic waves when encountering the interface of liquid media (solid media) of different densities, and measures the liquid level/distance by measuring the transit time.

Parameters	
Product	Ultrasonic level transmitter
Model	SUP-ULS-B
Measure range	0-5m,0-10m,0-15m(optional)
Blind zone	≤0.3m(5m)
	≤0.35m(10m)
	≤0.5m(15m)
Accuracy	±0.5%FS
Display	Monochrome LCD screen
Output (optional)	Isolated,4-20mA
	Output precision:±0.5%FS
	RL≤500Ω
Measuring variable	Level/Distance
Power supply	100-240 VAC,5W MAX,50/6Hz
	18-28 VDC
Temperature range	Converter:-20-60 °C
	Sensor:-20-80 °C
Humidity range	10%-85% RH(no condensation)
Ingress protection	Converter:IP65
	Sensor:IP68
Cable	10m(Standard)
	30mMAX(optional)

Wiring

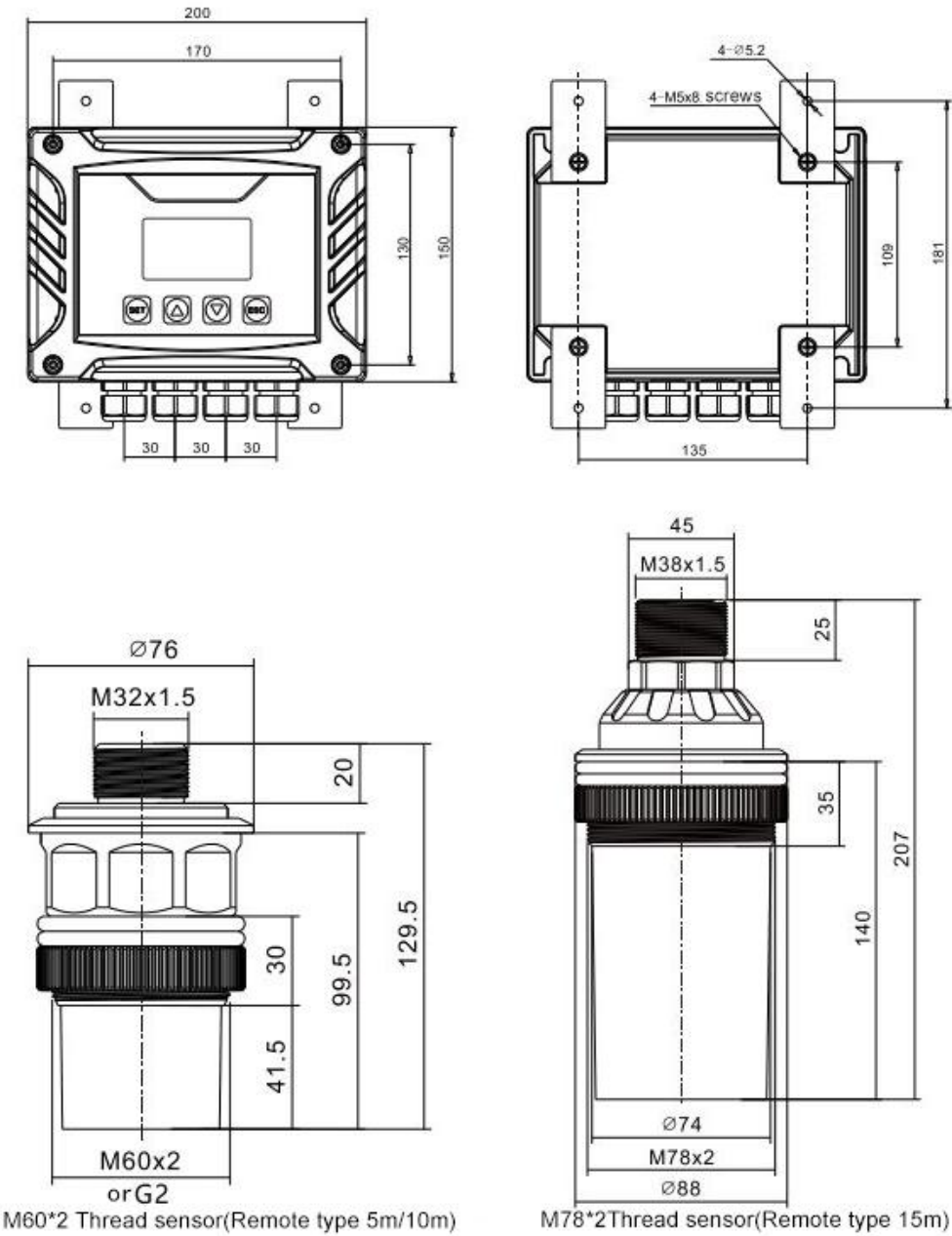


220V Power supply



24V Power supply

Dimension



## Ordering code

SUP-ULS-B-RT1-ST1-J5-O1-D0-A2-V1-CS10

SUP-ULS-B									Description
Measurement range	RT1	-	-	-	-	-	-	-	5m
	RT2	-	-	-	-	-	-	-	10m
	RT3	-	-	-	-	-	-	-	15m
Sensor type	ST1	-	-	-	-	-	-	-	Standard
	ST2	-	-	-	-	-	-	-	Anticorrosion
Accuracy	J5		-	-	-	-	-	-	0.5%
Output	O1		-	-	-	-	-	-	(4~20) mA
Communication	D0		-	-	-	-	-	-	RS485
Relay output	A2		-	-	-	-	-	-	2 relay
	A4		-	-	-	-	-	-	4 relay
Power supply	V1		-	-	-	-	-	-	(100~240)VAC
	V2		-	-	-	-	-	-	(18~28) VDC
Cable length	CS10		-	-	-	-	-	-	10m
	CS15		-	-	-	-	-	-	15m
	CS20		-	-	-	-	-	-	20m
	CS25		-	-	-	-	-	-	25m
	CS30		-	-	-	-	-	-	30m