



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**

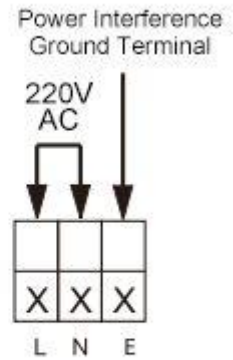
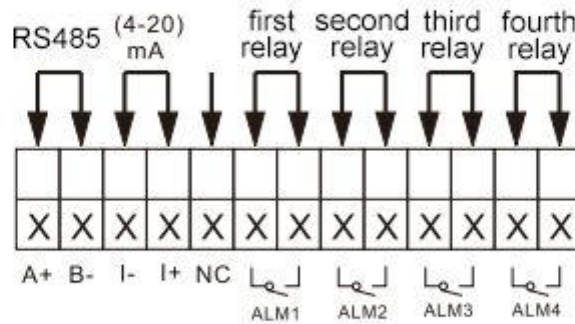
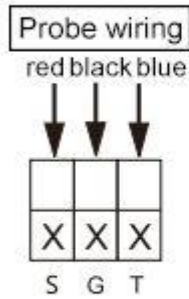
- Simple operation
- Remote type with touch buttons improves the quality of human-computer interaction
- Fault self-diagnosis technology, realize real-time fault self-diagnosis
- A variety of working conditions algorithm selection, improve environmental adaptability;
- High measurement resolution
- Fast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

**Ultrasonic level meter****Principle**

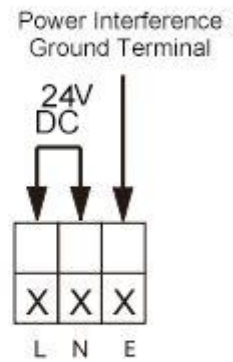
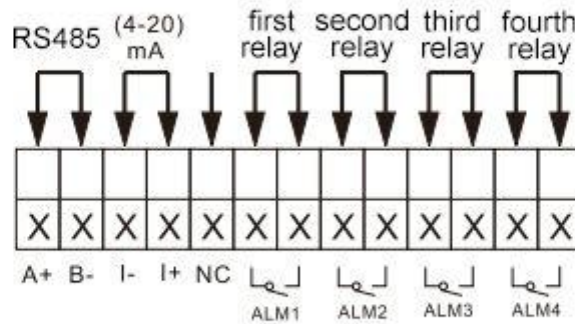
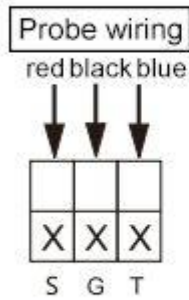
SUP-ULS-B utilizes the reflection of ultrasonic waves when encountering the interface of liquid media (solid media) of different densities, and measures the liquid level/distance by measuring the transit time.

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
	±0.3%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

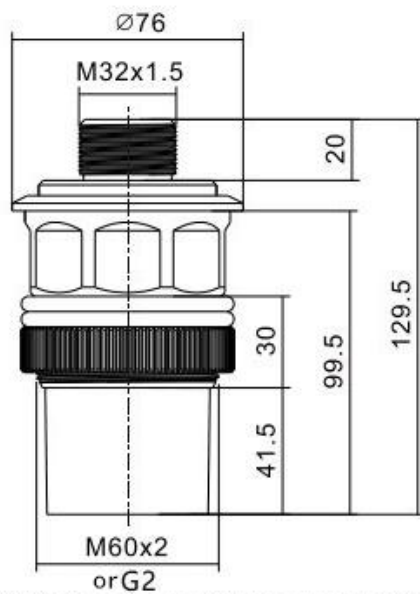
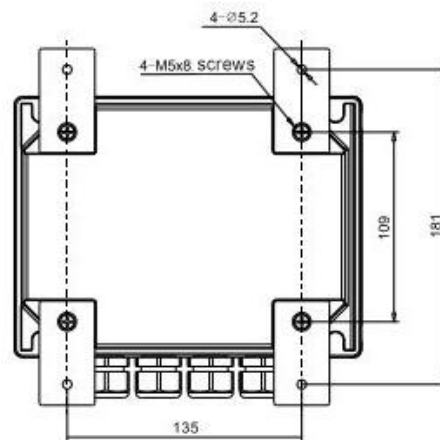
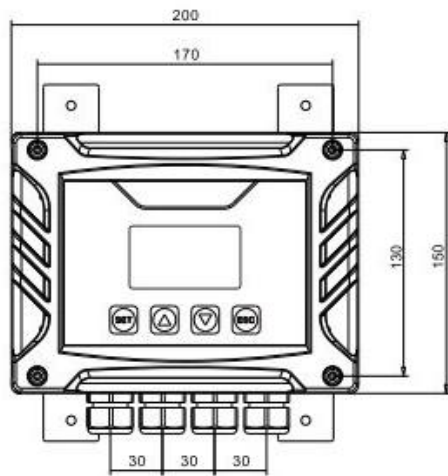


220V Power supply

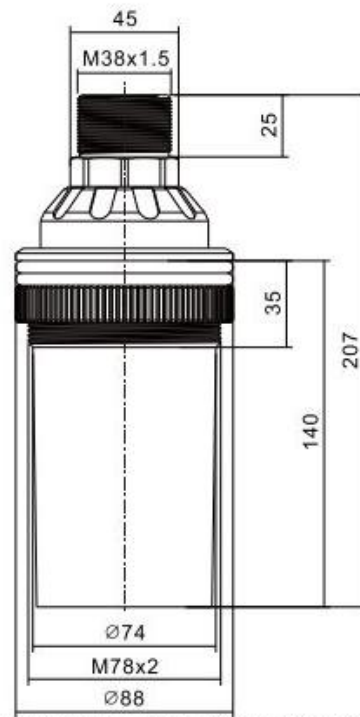


24V Power supply

Dimension



M60\*2 Thread sensor(Remote type 5m/10m)



M78\*2 Thread sensor(Remote type 15m)

Ordering code

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