



## Datasheet

Ultrasonic level transmitter

SUP-ULS-B



**TOTAL  
PRESSURE  
SOLUTIONS**

## 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**

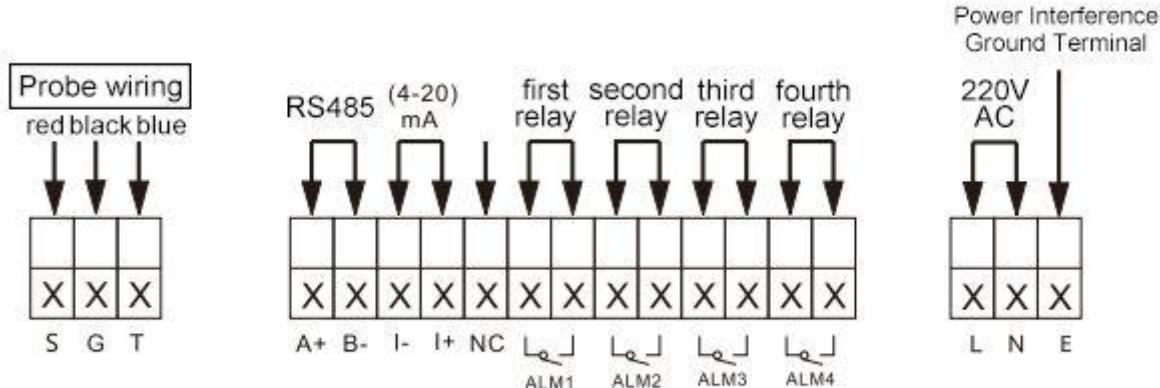
#### Principle

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.

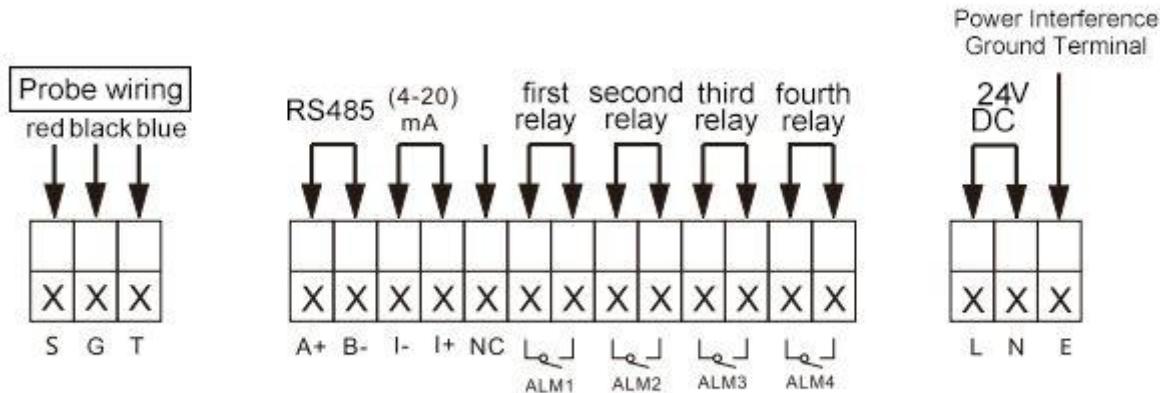


Parameters	
Product	Ultrasonic level transmitter
Model	SUP-ULS-B
Measure range	0-5m,0-10m,0-15m(optional) ≤0.3m(5m)
Blind zone	≤0.35m(10m) ≤0.5m(15m)
Accuracy	±0.5%FS ±0.3%FS
Display	Monochrome LCD screen Isolated,4-20mA
Output (optional)	Output precision:±0.5%FS RL≤500Ω
Measuring variable	Level/Distance
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



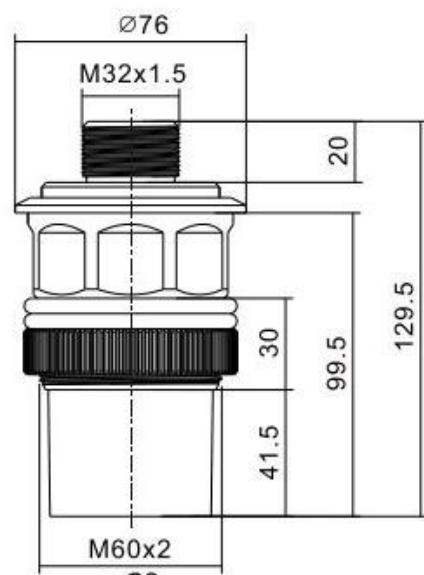
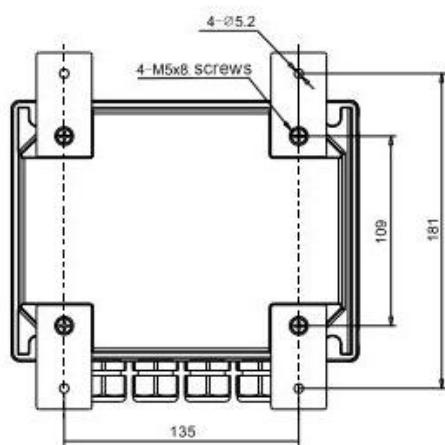
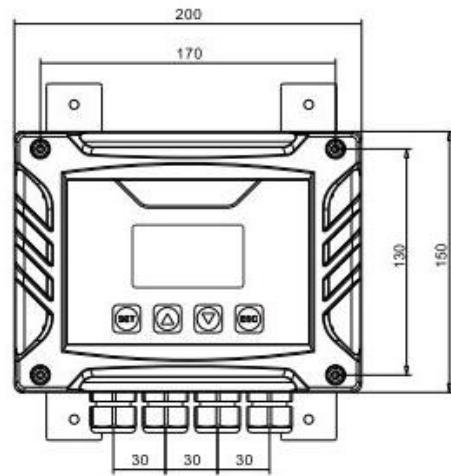
220V Power supply



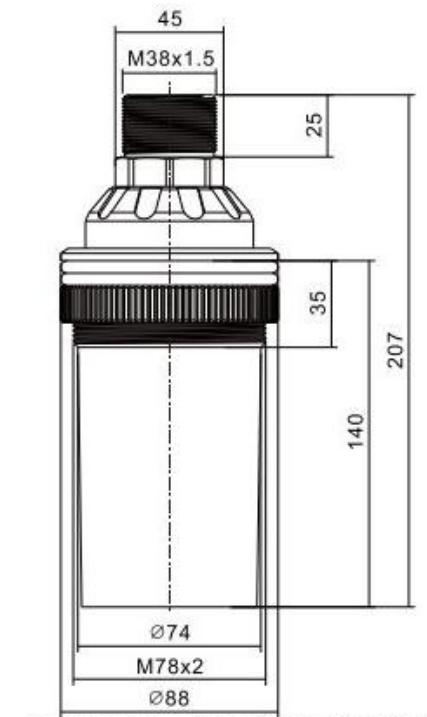
## 24V Power supply



## Dimension



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



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



## Ordering code

SUP-ULS-C-NS-K-SA-WE-10-EA							
SUP-ULS-B							Description
Measurement Range and Thread Type							5m, G2 10m, G2 15m, M78×2
Probe Material							Plastic ABS Polytetrafluoroethylen e (PTFE)
Accuracy							0.5 Class 0.3 Class
Output							4-20mA, 24VDC 4-20mA+RS485, 24VDC 4-20mA + Dual SPST, 24VDC 4-20mA + Four SPST, 24VDC 4-20mA + Dual SPST + RS485, 24VDC 4-20mA+ Four SPST + RS485, 24VDC 4-20mA, 220VAC 4-20mA+RS485, 220VAC 4-20mA+ Four SPST, 220VAC 4-20mA+ Four SPST + RS485, 220VAC
Electrical Interface, Housing Material, and Ingress Protection							M20×1.5 Cable Gland, Plastic ABS, IP65
Probe Cable Length							10m 15m 20m 30m Other
Accessories							L-shaped Stainless Steel Mounting Bracket, 0.8m L-shaped Stainless Steel Mounting Bracket, 1.5m