



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Ultrasonic level transmitter

SUP-ULS-B

**Supmea**<sup>®</sup>

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**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**

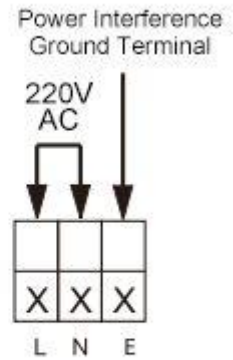
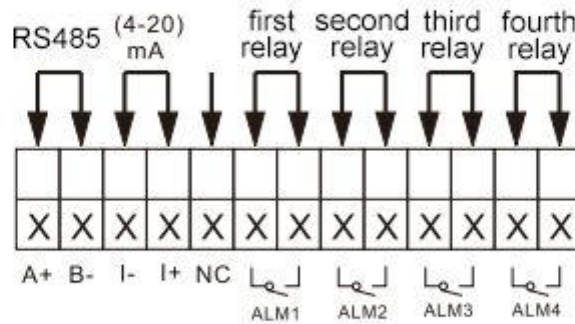
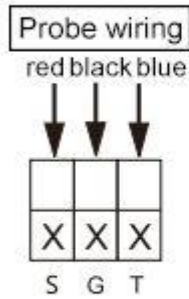
- Simple operation
- Remote type with touch buttons improves the quality of human-computer interaction
- Fault self-diagnosis technology, realize real-time fault self-diagnosis
- A variety of working conditions algorithm selection, improve environmental adaptability;
- High measurement resolution
- Fast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

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

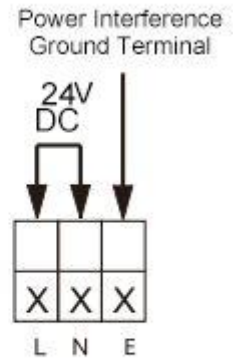
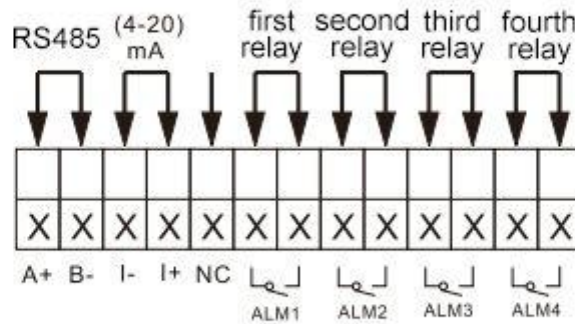
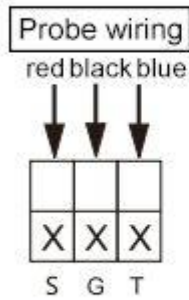
SUP-ULS-B utilizes the reflection of ultrasonic waves when encountering the interface of liquid media (solid media) of different densities, and measures the liquid level/distance by measuring the transit time.

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

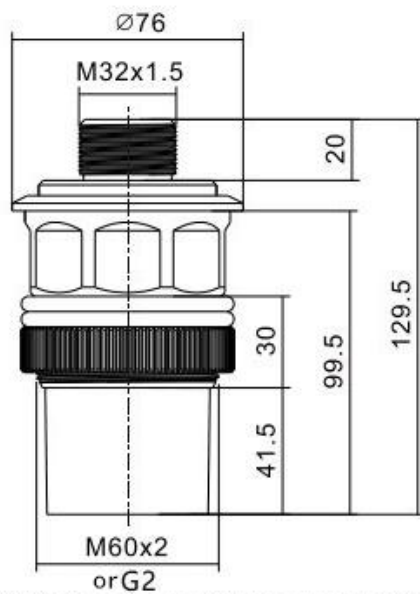
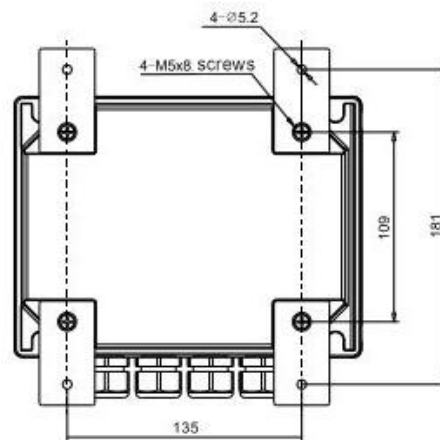
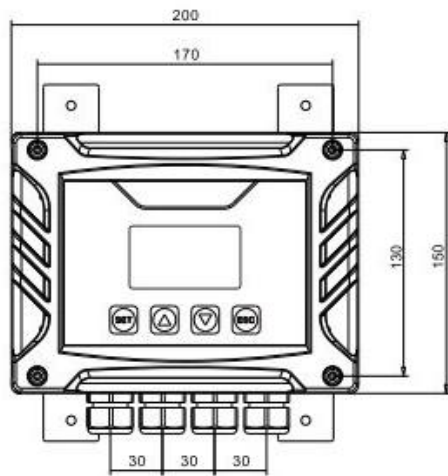


220V Power supply

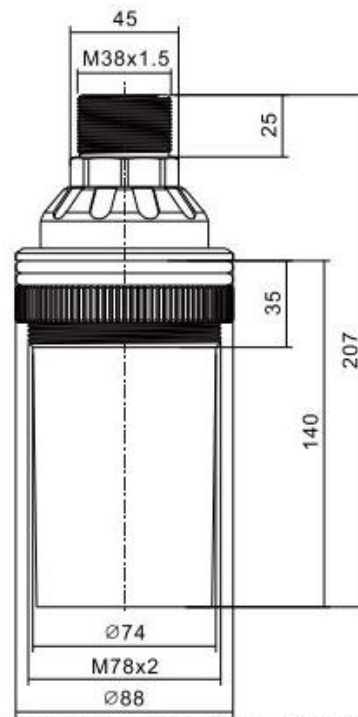


24V Power supply

Dimension



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



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

**Ordering code**

SUP-ULS-C-NS-K-SA-WE-10-EA									Description
SUP-ULS-B	-	-	-	-	-	-	-	-	
Measurement Range and Thread Type	C								5m, G2
	D								10m, G2
	L								15m, M78×2
Probe Material		NS							Plastic ABS
		N6							Polytetrafluoroethylene (PTFE)
Accuracy			K						0.5 Class
			H						0.3 Class
Output				SA					4-20mA, 24VDC
				SE					4-20mA+RS485, 24VDC
				SG					4-20mA + Dual SPST, 24VDC
				SK					4-20mA + Four SPST, 24VDC
				SP					4-20mA + Dual SPST + RS485, 24VDC
				SS					4-20mA+ Four SPST + RS485, 24VDC
				SB					4-20mA, 220VAC
				SF					4-20mA+RS485, 220VAC
Electrical Interface, Housing Material, and Ingress Protection								SL	4-20mA+ Four SPST, 220VAC
								ST	4-20mA+ Four SPST + RS485, 220VAC
							WE		M20×1.5 Cable Gland, Plastic ABS, IP65
Probe Cable Length								10	10m
								15	15m
								20	20m
								30	30m
								XX	Other
Accessories								EA	L-shaped Stainless Steel Mounting Bracket, 0.8m
								EB	L-shaped Stainless Steel Mounting Bracket, 1.5m