



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Ultrasonic level transmitter

SUP-ULS-B

Supmea[®]

Committed to process automation solutions

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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

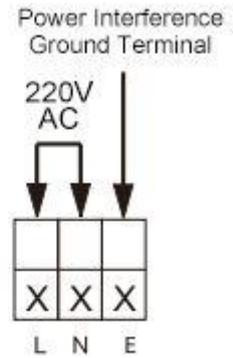
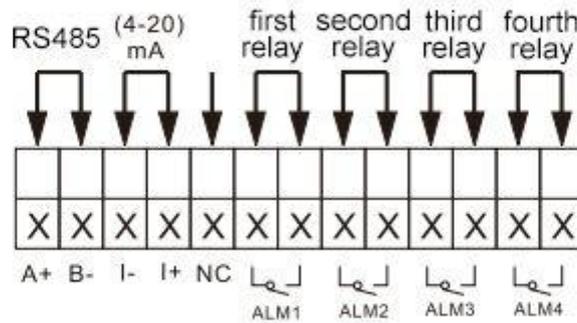
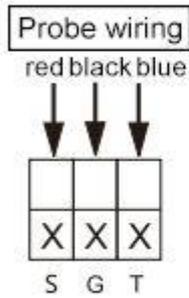
- Simple operation
- Remote type with touch buttons improves the quality of human-computer interaction
- Fault self-diagnosis technology, realize real-time fault self-diagnosis
- A variety of working conditions algorithm selection, improve environmental adaptability;
- High measurement resolution
- Fast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

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

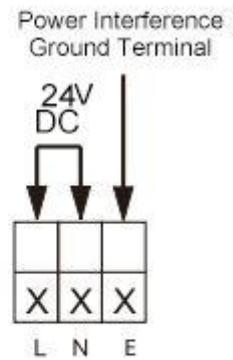
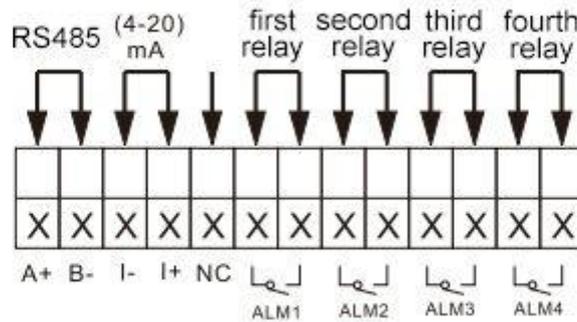
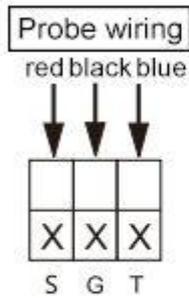
SUP-ULS-B utilizes the reflection of ultrasonic waves when encountering the interface of liquid media (solid media) of different densities, and measures the liquid level/distance by measuring the transit time.

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:±0.2%FS
	RL≤500Ω
Measuring variable	Level/Distance
Power supply	100-240 VAC,50/60Hz
	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

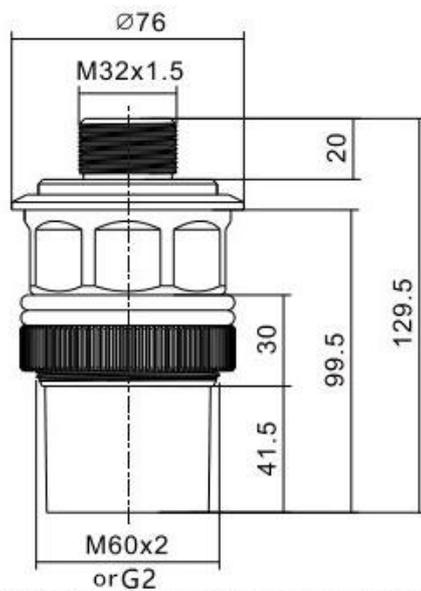
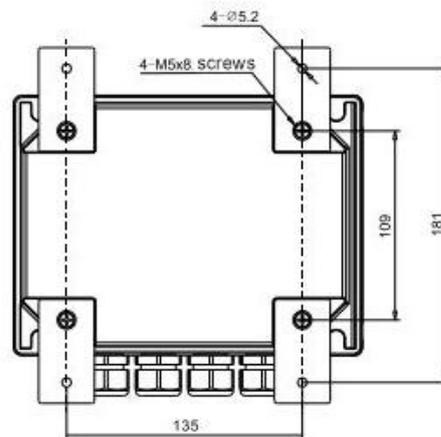
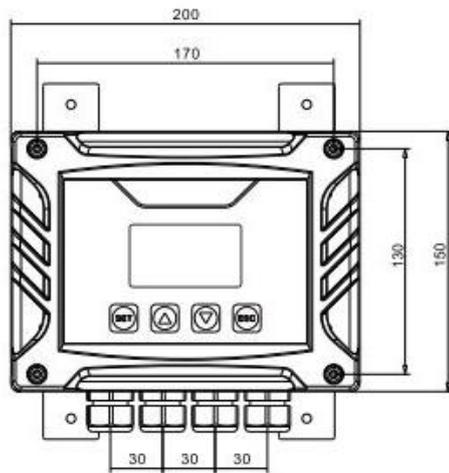


220V Power supply

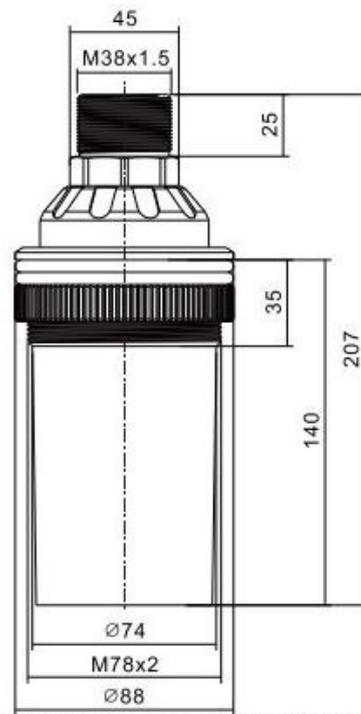


24V Power supply

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										
SUP-ULS-B	-	-	-	-	-	-	-	-	-	Description
Measurement Range and Thread Type	C									5m, G2
	D									10m, G2
	L									15m, M78x2
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						M20x1.5 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