



Brochure

Split Type Ultrasonic Level

Transmitter

SUP-ULS-B

**Exclusive Distributor
in Türkiye**

MV Endüstriyel Ölçüm Cihazları Anonim Şirketi

Supmea®

Supmea Automation Co.,Ltd.

Committed to process automation solutions

Brochure**Split Type Ultrasonic Level Transmitter
SUP-ULS-B**

Ultrasonic level meter (for material and liquid level measurement) is a non-contact highly reliable and cost-effective material level measuring instrument which is easily installed and maintained. It can meet most of the material level measurement requirements without touch property rights developed by the company via years of hard work.

Applications

- ☐ Environmental protection
- ☐ Building construction
- ☐ Warehouse Logistics
- ☐ Food and Beverage Industry
- ☐ Power industry
- ☐ Petrochemicals
- ☐ Water treatment industry

**Features**

- ☐ Non-contact measurement
- ☐ High precision
- ☐ High reliability
- ☐ Easy to install
- ☐ Wide measuring range
- ☐ Various output signals
- ☐ Intelligent function-rich

**Split Type Ultrasonic Level
Transmitter**

Principle

The ultrasonic wave is reflected when it meets the interface of liquid medium (solid medium) with different density, and the transmission time is measured to measure the liquid level / distance.

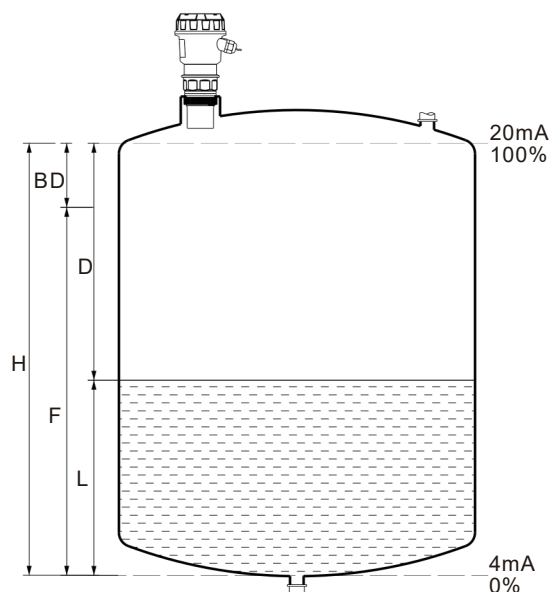


Figure 1 Measuring principle

BD: Blind distance

H: Installation height

F: Measuring range

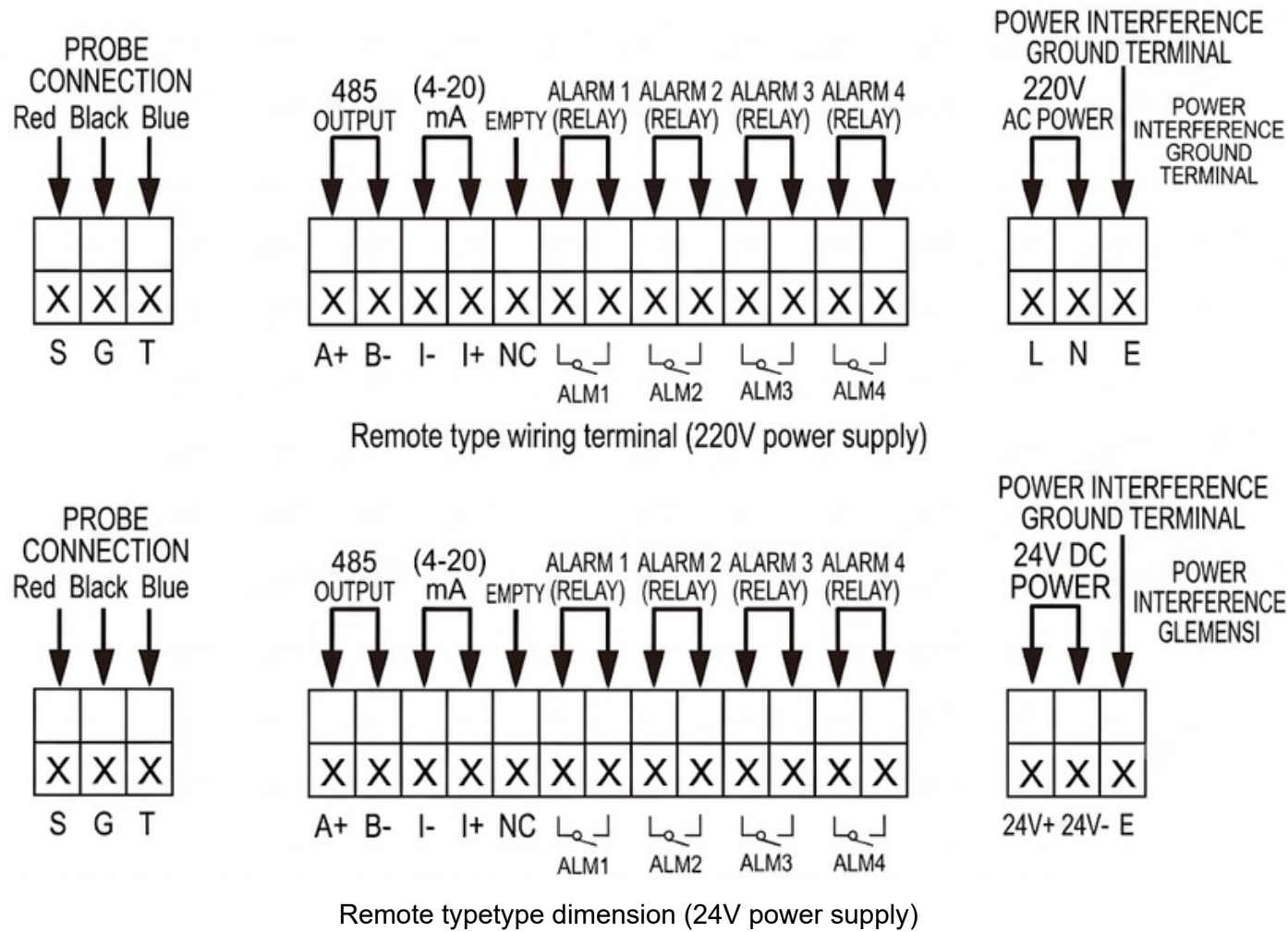
D: The distance from probe emitting surface to material surface

L: Level

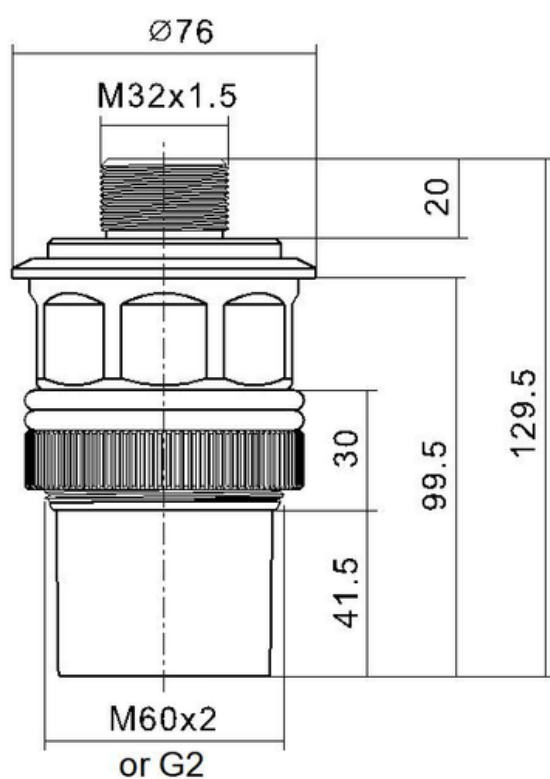
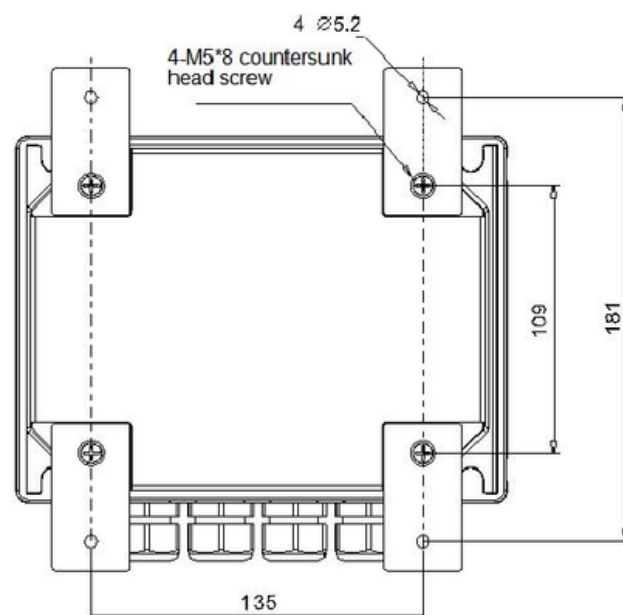
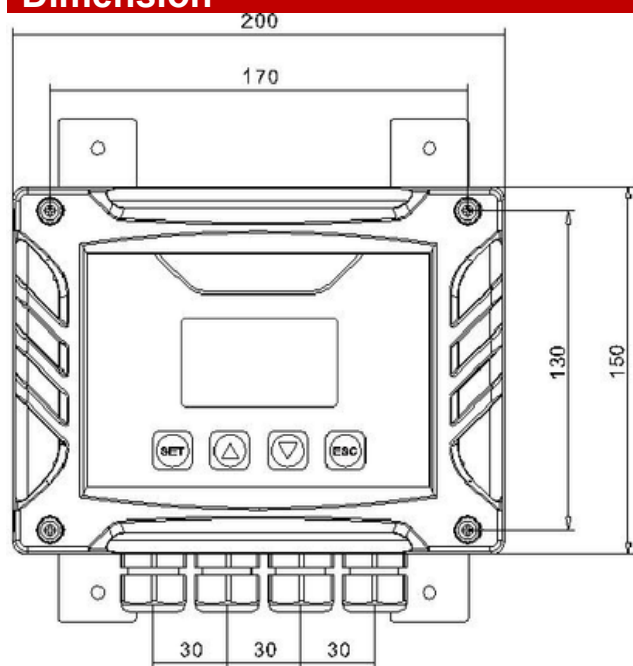
Parameters	
Measuring variable	Level / Distance
Power supply	(100~240)VAC, 5WMax, 50/60Hz; (18~28)VDC
Measuring range	(0~5)m/(0~10)m/(0~15)m
Accuracy	±0.5% FS
Blind area	≤0.3m (5m)
	≤0.35m (10m)
	≤0.5m (15m)
Resolution	1mm or 0.1%FS (maximum)
Display	Monochrome LCD with resolution of 128 * 64
Current output	Isolated (4 ~ 20)mA , the maximum load is 500Ω, and the output accuracy is 0.2%FS
Communication	Isolated RS485 Modbus-RTU Communication Protocol
Relay output	2 groups (i.e. AC 250V/ 8A or DC 30V/ 5A) optional, 4 groups optional
Working temperature	Instrument: (-20~+60)°C
	Probe: (-20~+80)°C

Ingress Protection	Instrument: IP65 Probe: IP68
Probe cable	10m (standard configuration), 30m available
Relative humidity	(10~85)%RH (no condensation)
Language	Chinese/English
Installation method	Wall mounted installation

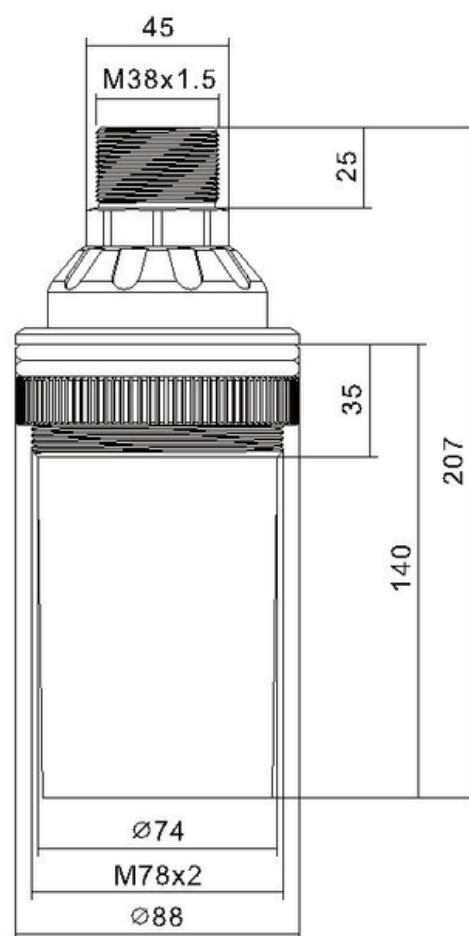
Wiring



Dimension



M60×2Thread Sensor (5m/10m)

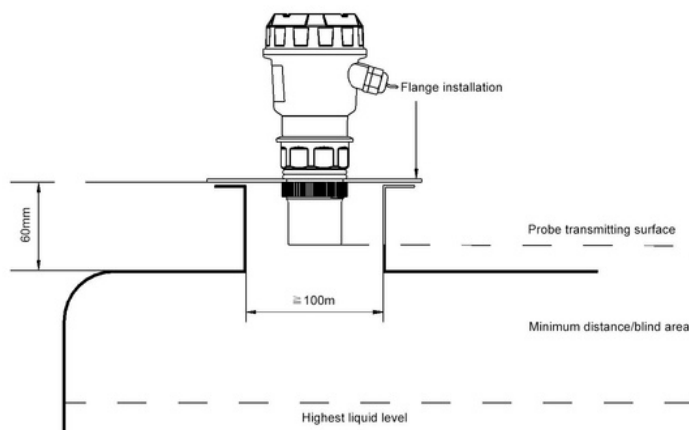


M78×2Thread Sensor (15m)

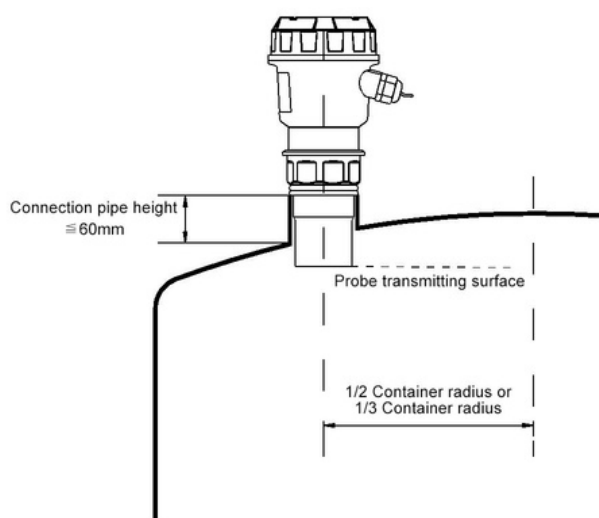
Installation

Installation

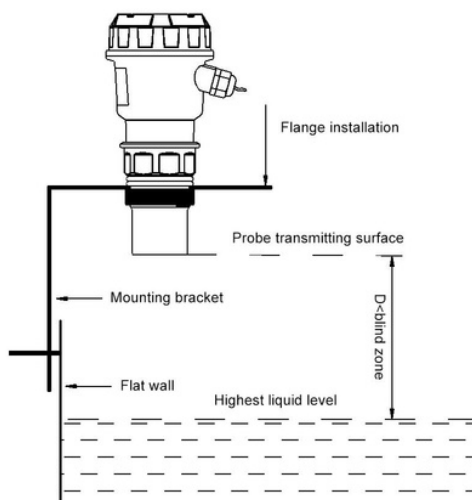
Flat-top tank



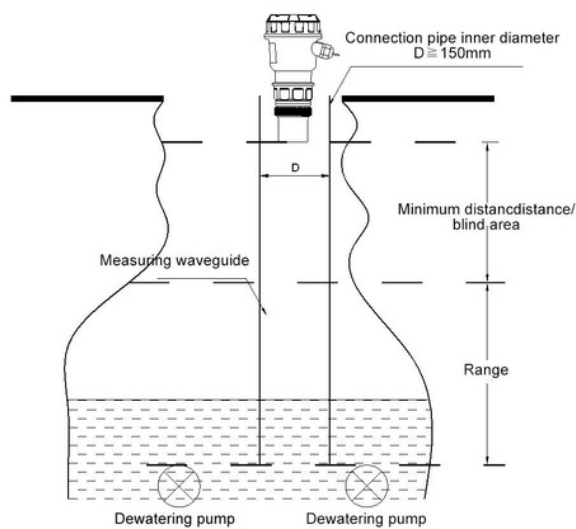
Arched tank top



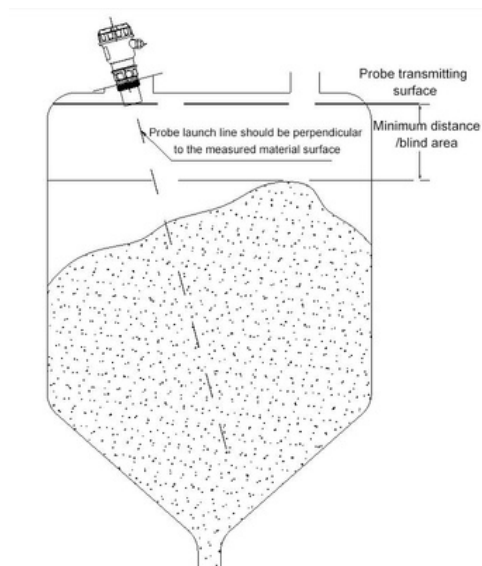
Open tank



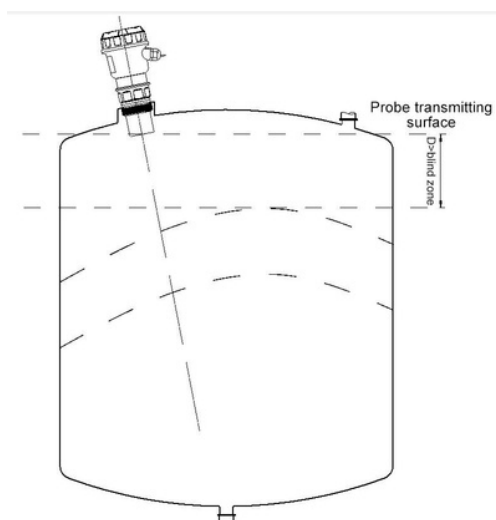
Drainage wells and ordinary wells



Flange mounting



Threaded pipe installation



Ordering code

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

Accessories

1.5m

RA HG20539 PN3 DN65 PPH
 RB HG20539 PN3 DN80 PPH
 RC HG20539 PN3 DN100 PPH
 RD HG20539 PN3 DN150 PPH
 RE HG20539 PN3 DN200 PPH

EA L-shaped stainless steel mounting bracket 0.8m
 EB L-shaped stainless steel mounting bracket