Recorder Flow Pressure Temp Analyzer Level

Datasheet

Ultrasonic level trasmitter

SUP-MP-C

TOTAL
PRESSURE
SOLUTIONS

Ultrasonic level transmitter
SUP-MP-C

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

Ultrasonic level meter

Features

- Simple operation
- 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
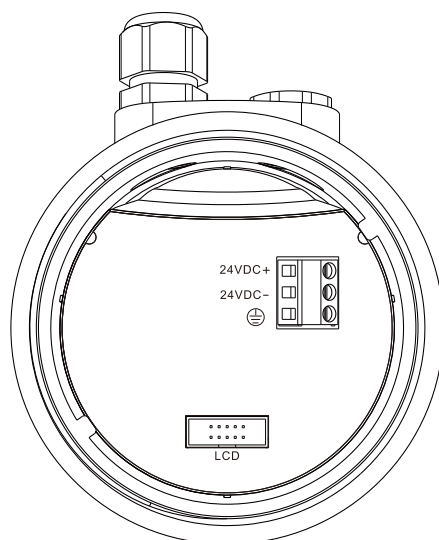- Automatic temperature compensation

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
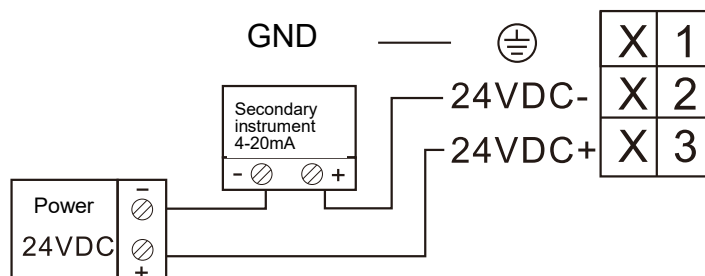
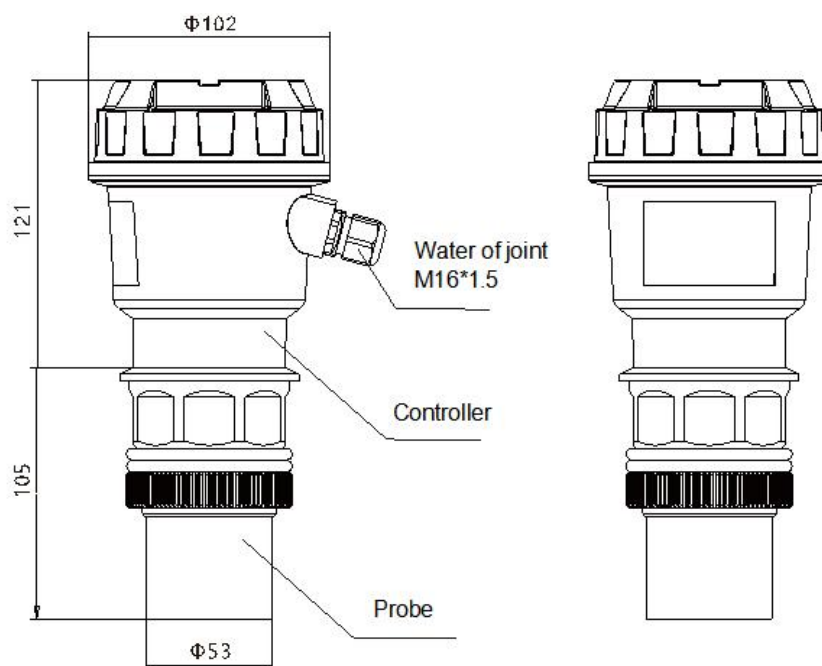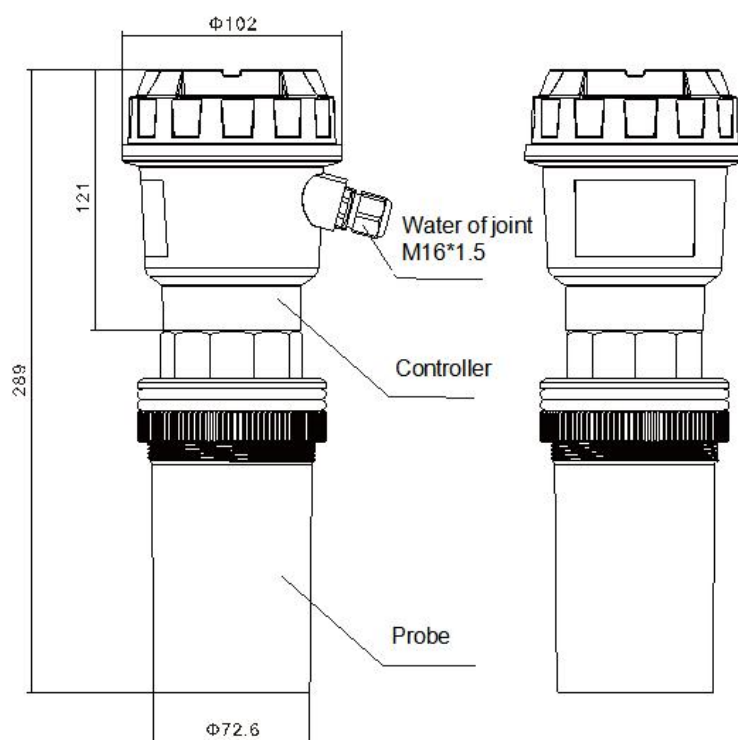| Parameters	
Product	Ultrasonic level transmitter
Model	SUP-MP-C
Measure range	(0~5) m / (0~10) m / (0~15) m
Blind zone	≤0.4m (5m、10m) ≤0.6m (15m)
Accuracy	±0.5%FS ±0.3%FS
Display	Monochrome LCD with resolution of 128 * 64
Current output	(4 ~ 20) mA , the output accuracy is 0.2%FS Output load is (U-18V)/0.02A (U:supply voltage,2-wire) Output load is (U-14V)/0.02A (U:supply voltage,4-wire)
Measuring variable	Level/Distance
Power supply	18-28 VDC
Resolution	1mm or 0.1%FS (maximum)
Communication	RS485 (4-wire)
Relay output	2 groups (4-wire optional)
Working temperature	Instrument: (-20~+60)ºC Probe: (-20~+80)ºC
Ingress Protection	Instrument: IP65 Probe: IP68
Relative humidity	(10~85)%RH (no condensation)
Language	Chinese/English
Installation method	Threaded installation
Display method	With display (Optional without display. Refer to 1.5 for settings without display)

Wiring

24VDC+
24VDC−

LCD

1	X	24VDC+
2	X	24VDC−
3	X	⏚

24VDC

GND

GND ⏚

Secondary
instrument
4-20mA

− ⊘   ⊘ +

24VDC−
24VDC+

Power
24VDC

−
+

X	1
X	2
X	3

Dimension

Φ102

121

105

Water of joint
M16*1.5

Controller

Probe

Φ53

M60×2 or G2 Thread Sensor (5m/10m)

Φ102

121

289

Water of joint
M16*1.5

Controller

Probe

Φ72.6

M78×2 Thread Sensor (15m)

Ordering code

SUP-MP-C-NS-J3-A1-WB-EA

Category	Code	Description
SUP-MP-C		Integrated Type Ultrasonic Level Transmitter
Measurement Range and Thread Type	C	5m，G2
	D	10m，G2
	L	15m，M78×2
Probe Material	NS	Plastic ABS
	N6	Polytetrafluoroethylene (PTFE)
Accuracy	J3	0.5 Class
	J5	0.3 Class
Output and Power Supply	A1	2-Wire 4-20mA
	SA	4-20mA，24VDC
	SP	4-20mA + Dual SPST +RS485，24VDC
	SG	4-20mA + Dual SPST，24VDC
	SE	4-20mA+RS485，24VDC
	SW	4-20mA + Wireless NB-IoT，24VDC
	SX	4-20mA + Wireless NB-IoT + Dual SPST + RS485，24VDC
	SY	4-20mA + Wireless NB-IoT + Dual SPST，24VDC
	SZ	4-20mA + Wireless NB-IoT+RS485，24VDC
Electrical Interface, Housing Material, and Ingress Protection	WB	M16×1.5 Cable Gland, Plastic ABS，IP65
Accessories	EA	L-shaped Stainless Steel Mounting Bracket, 0.8m
	EB	L-shaped Stainless Steel Mounting Bracket, 1.5m
	EC	Polycarbonate (PC) Protective Cover

Note:When 4-wire system is used, the default display is displayed.Single current output is 2-wire system, no RS485, no relay output