Recorder Flow Pressure Temp Analyzer Level

XSON®

Datasheet

Ultrasonic level transmitter

XSON-SUP-ULS-B

Ultrasonic level transmitter
XSON-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

Ultrasonic level meter

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;
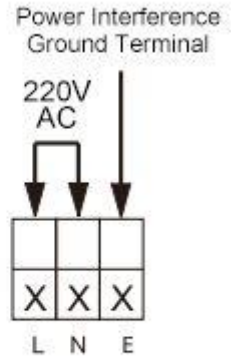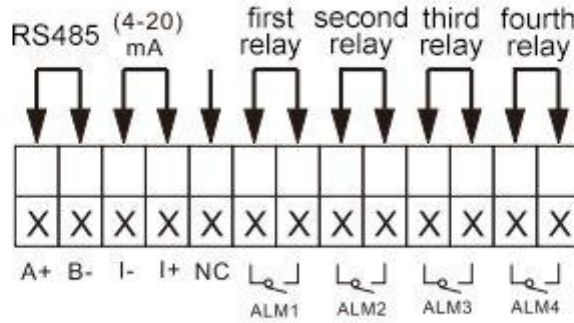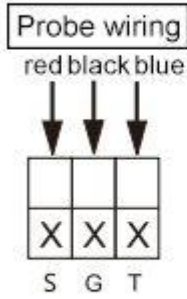- Automatic temperature compensation
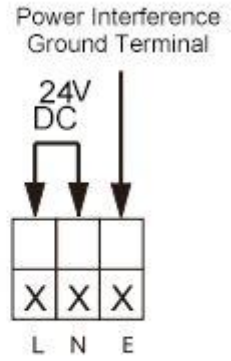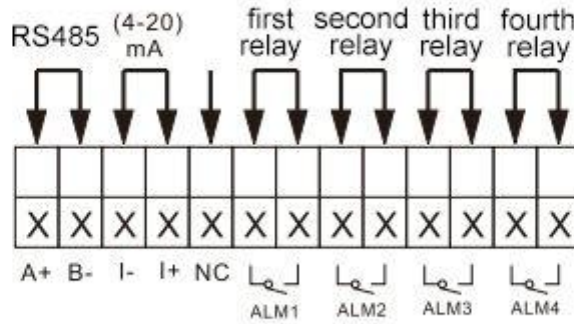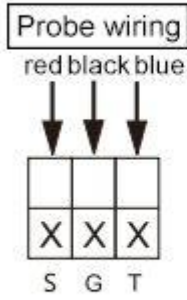
Principle

XSON-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.

XSON

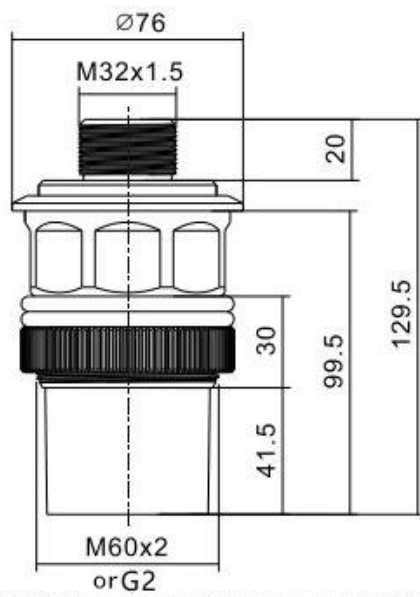| Parameters	
Product	Ultrasonic level transmitter
Model	XSON-SUP-ULS-B
Measure range	0-5m,0-10m,0-15m(optional)
Blind zone	≤0.3m(5m) ≤0.35m(10m) ≤0.5m(15m)
Accuracy	±0.5%FS ±0.3%FS
Display	Monochrome LCD screen
Output (optional)	Isolated,4-20mA Output precision:±0.5%FS RL≤500Ω
Measuring variable	Level/Distance
Power supply	100-240 VAC,5W MAX,50/6Hz 18-28 VDC
Temperature range	Converter:-20-60 ℃ Sensor:-20-80 ℃
Humidity range	10%-85% RH(no condensation)
Ingress protection	Converter:IP65 Sensor:IP68
Cable	10m(Standard) 30mMAX(optional)

![XSON logo]

220V Power supply

Probe wiring		
red	black	blue
X	X	X
S	G	T

RS485 (4-20) mA — first relay — second relay — third relay — fourth relay

A+	B-	I-	I+	NC								
X	X	X	X	X	X	X	X	X	X	X	X	X

ALM1 ALM2 ALM3 ALM4

Power Interference Ground Terminal
220V AC

X	X	X
L	N	E

220V Power supply

24V Power supply

Probe wiring		
red	black	blue
X	X	X
S	G	T

RS485 (4-20) mA — first relay — second relay — third relay — fourth relay

A+	B-	I-	I+	NC								
X	X	X	X	X	X	X	X	X	X	X	X	X

ALM1 ALM2 ALM3 ALM4

Power Interference Ground Terminal
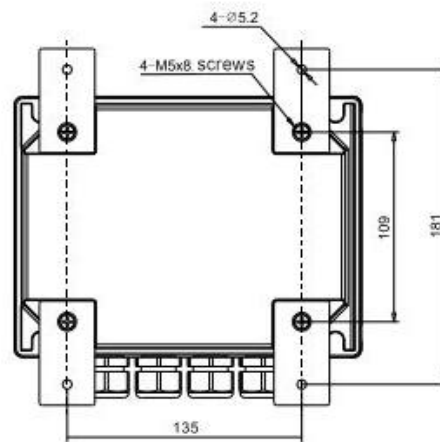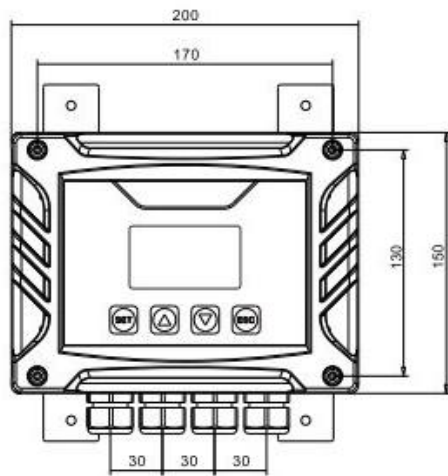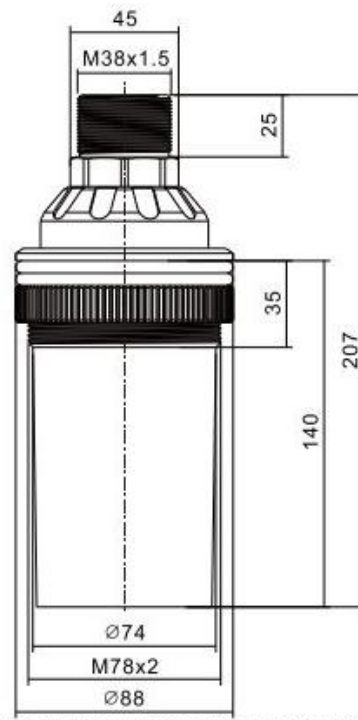24V DC

X	X	X
L	N	E

24V Power supply

Dimension

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

M78*2 Thread sensor(Remote type 15m)

Ordering code

XSON-SUP-ULS-B-RT1-ST1-J5-O1-D0-A2-V1-CS10

	Code	Description
XSON-SUP-ULS-B	- - - - - - - -	
Measurement range	RT1	5m
	RT2	10m
	RT3	15m
Sensor type	ST1	Standard
	ST2	Anticorrosion
Accuracy	J5	0.5%
Output	O1	（4~20）mA
Communication	D0	RS485
Relay output	A2	2 relay
	A4	4 relay
Power supply	V1	（100～240）VAC
	V2	（18～28）VDC
Cable length	CS10	10m
	CS15	15m
	CS20	20m
	CS25	25m
	CS30	30m