



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Ultrasonic Mud Level Meter

SUP-JFC

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Datasheet**Ultrasonic Mud Level Meter
SUP-JFC**

The ultrasonic mud level meter, also known as an ultrasonic sludge interface meter, is an on-contact, easy-to-install and maintain instrument for measuring sludge thickness in fixed containers. It operates by transmitting ultrasonic waves through liquid to detect mud levels underwater and is a new generation of ultrasonic sludge interface developed by the company over many years, holding proprietary intellectual property rights.

Applications

- Sludge
- Mud
- Fixed Container

**Features**

- Non contact, easy to install and maintain.
- Allow for easy configuration to satisfy diverse requirements.
- When powered by a 24V source, the power consumption is 100mA without relays, 150mA with 2-way relays, and 200mA with 4-way relays.

Product name

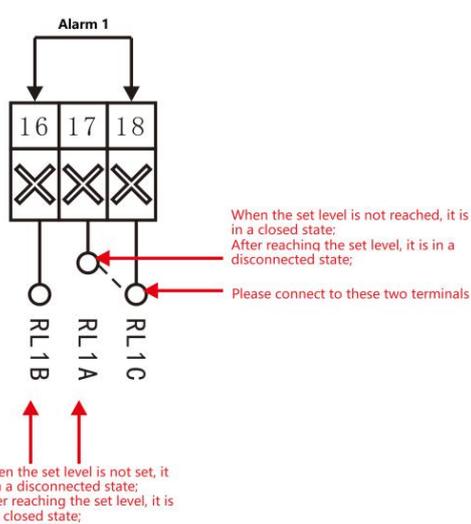
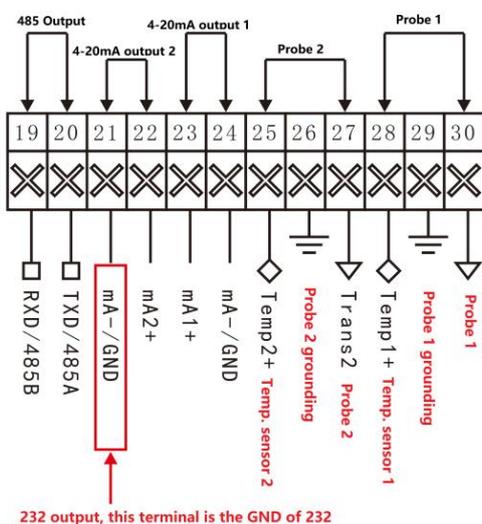
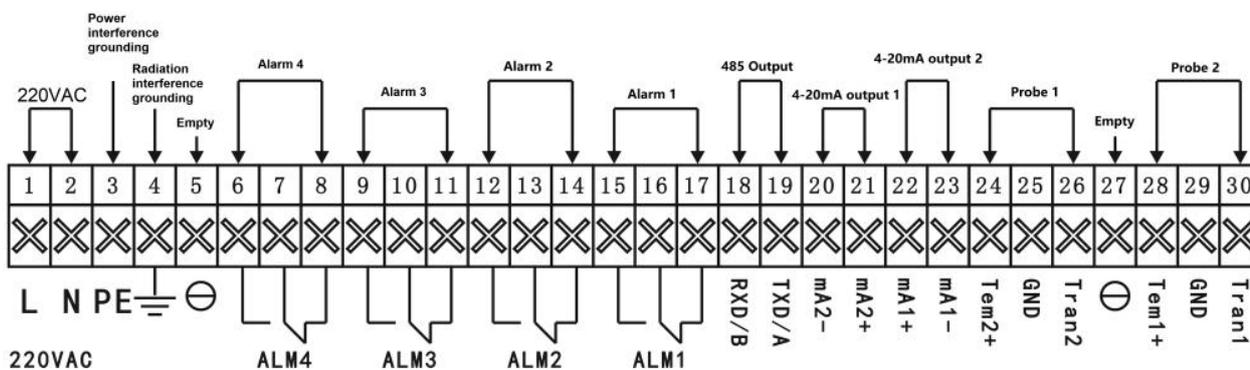
Ultrasonic Mud Level Meter

Principle

It operates by transmitting ultrasonic waves through liquid to detect mud levels underwater.

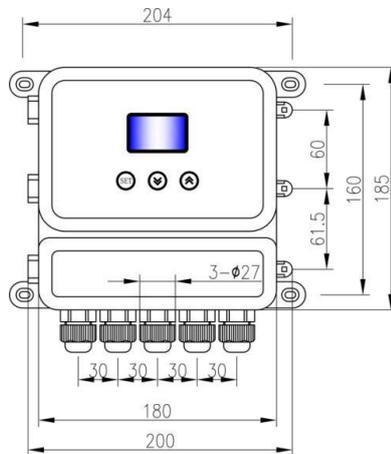
Parameters	
Structure	Remote Type
Range	Standard Ranges: 5m、 10m、 15m、 20m Custom Ranges: 30m、 40m、 50m、 60m、 70m etc.
Measurement Accuracy	1%~3%
Resolution	5mm or 0.5% (whichever is greater)
Display	English LCD
Analog Output	4~20mA / 750Ω load
Relays Output	Single channel with 2 routes AC 250V/8A or DC 30V/5A Programmable status, up to 4 relay routes possible
Power Supply	Standard 220V AC+15% 50Hz Optional 24VDC 120mA Custom options for 12VDC or battery power available
Environmental Temperature	Display instrument: -20°C~+60°C Probe: -20°C~+80°C
Communication	Optional RS485, RS232 communication
Protection Grade	Display instrument IP65, Probe IP68
Probe Cable	Up to 100m, standard configuration 10m
Probe Installation	According to the range and probe selection.

Wiring

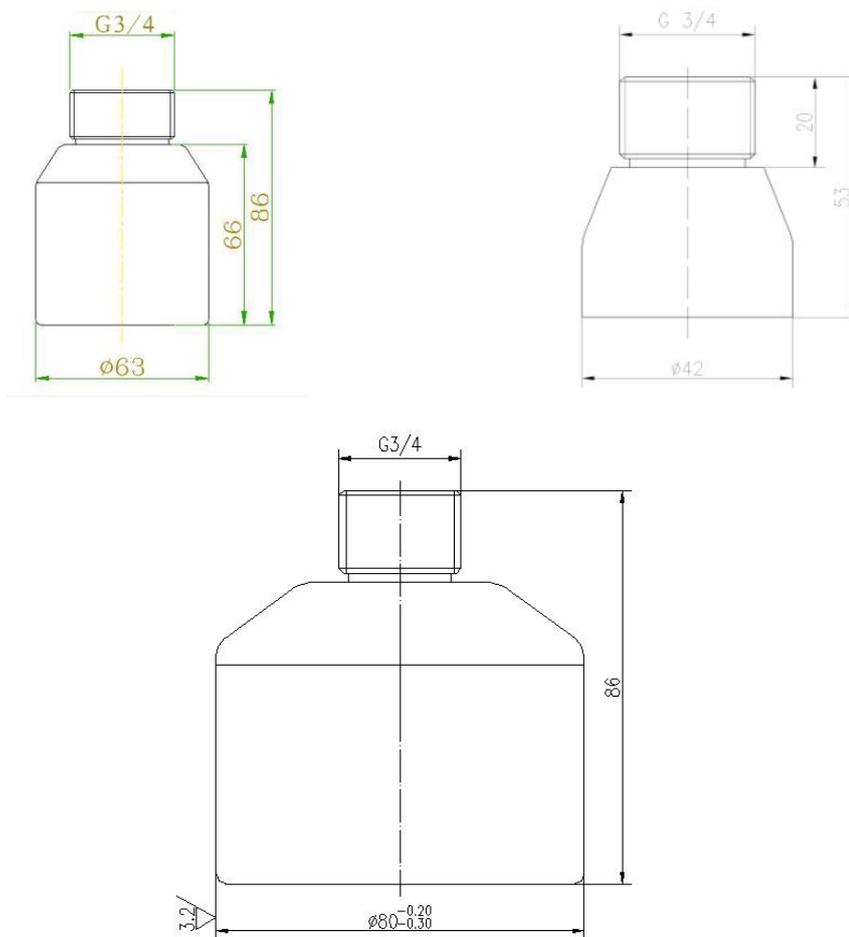


Dimension

- Dimensional drawing of the display instrument for the split-type ultrasonic sludge interface meter



- Dimensional drawing of the probe for the split-type ultrasonic sludge interface meter series



Ordering code

SUP-JFC-E-NS-Q-SA-WD-10							Description
SUP-JFC	-	-	-	-	-	-	
Measurement Range and Thread Type	E						5m, G3/4 Thread
	F						10m, G3/4 Thread
	G						15m, G3/4 Thread
	P						20m, G3/4 Thread
	X						Others
Probe Material	NS						Plastic ABS
	N6						Polytetrafluoroethylene (PTFE)
	XX						Others
Accuracy			Q				3.0 Level
Output				SA			4-20mA, 24VDC
				SH			4-20mA+ Dual Group SPDT, 24VDC
				SM			4-20mA+ Four Group SPDT, 24VDC
				SE			4-20mA+RS485, 24VDC
				SQ			4-20mA+ Dual Group SPDT+RS485, 24VDC
				SU			4-20mA+ Four Group SPDT+RS485, 24VDC
				SB			4-20mA, 220VAC
				2J			4-20mA+ Dual Group SPDT, 220VAC
				SN			4-20mA+ Four Group SPDT, 220VAC
				SF			4-20mA+RS485, 220VAC
				2K			4-20mA+ Dual Group SPDT+RS485, 220VAC
				SV			4-20mA+ Four Group SPDT+RS485, 220VAC
			XX			Others	
Electrical Interface, Housing Material and Level of Protection					WD		M18×1.5 Cable Gland, Engineering Plastic, IP68
Probe Cable Length						10	10m
						15	15m
						20	20m
						30	30m
						XX	Others