SUL801 ULTRASONIC LEVEL TRANSMITTER

MAIN FEATURES

- Designed for application conditions such as multiple measuring points, small installation space.
- Using SMD chip components and self-developed ASC special chip, making the whole circuit very compact and simple.
- Internal electromagnetic shielding and software digital filtering (industrial grade) factory 48 hours high and low temperature and electrical aging, high stability and longterm reliability.
- The shell is made of NLEPF synthetic material with strong texture and good acoustic properties.



OVERVIEW

SUL801 ultrasonic level gauge is a very practical level measuring sensor with simple installation and convenient on-site commissioning. Not affected by the measured medium, It can measure the liquid level of various media very well. Especially for viscous media (similar to liquid glue, slurry, etc.), where the input level sensor is not suitable for practical use.

It uses SMD components and ASC chip, which makes the circuit compact and concise. The circuit board is plated and has high stability and long-term reliability. Meanwhile, the shell uses NLEPF synthetic materials with sturdy texture and good acoustic property. The transducer can be used in most working condition sites. While fixing it on the liquid wall or instrument housing, there is no need tools such as screws, but a 68mm hole. It has the features of stabilization, easy installation and disassembly.

SPECIFICATION

Ultrasonic sensor	Low power	Middle power-sensor Large power-sensor		r			
The Max. range	≤5m	≤7m	≤10m	≤10m	≤12m	≤15m	
Power supply	DC24V /DC12V	DC24V /DC12V	DC24V	DC24V /DC12V	DC24V	DC24V	
Beam angle	15°	1:	2°		9°		
Frequency	38K±10Khz	55K±	10Khz	40K±5Khz			
Accuracy	Standard: ±0.5% accuracy can be ± available for two	Standard: $\pm 0.5\%$ F S or ± 5 mm (at 25°C, Absolutely flat target under the condition of standard) OEM: FS≤1m, accuracy can be ± 1 mm FS≤2m, accuracy can be ± 3 mm FS≤15m, accuracy can be $\pm 0.25\%$ FS Above OEM not available for two wire system					
Output signal	Standard: 4-20mA (2 wires) OEM: 4-20mA(4 wires), 0-20mA, 0-5v, 1-5v 0-10v, 1-10v (both signal can not be customized DC12v) RS485(MCU protocol as default, Address=01, bps=9600) 4-20mA+RS485; 1-5V+RS485, 1~2NPN 1-10V, 0-10V, 4-20mA(two wire) - Power supply 24VDC can not be OEM						
Measuring mode	Standard: Distance mode, the distance of ultrasonic sensor surface to measuring target surface OEM: Level mode; the distance of level surface to level bottom(the bottom of tank) NOTE: Ensuring the distance of sensor surface to the level bottom is the actual mounting height, otherwise might be have installation error.						
Working temp.	Standard: 0~50°0 OEM: Negative Te	C emp10°C,-20°C,-3	30°C; Positive Temp	o. 60°C,70°C,80°C			
Wiring Mode	Waterproof conne	ect port, down-lead	0.5m(length can b	be customized)			
Installation	Screw type or sift	er clamping ; screv	w size: M68*2.0mm	n			
Protection class	IP65, OEM of IP6	6, IP67, IP68					
Working environment	Normal pressure OEM: Anti-explos power sensor Str	ion symbol Exia II A ong in corrosion res	T3 (DC12 V,range: sistance	≤10m) The materia	l sensor housing: P	TFE for large	
Notes	1. When level rang 2. Users no need t 3.For RS485-PC The max measur and level surface	ge ≥15m, equip witi to set the address, I product, users can e range depends o when ordering.	n other type ultrasc ops, installation hei adjust the paramet n the smooth level	onic sensors ight, so please verif er by software(the surface, so please	y to factory before o default software) e confirm the real u	ordering sing environment	

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High Quality Measurement Solutions

OUTLINE CONSTRUCTURE



→ Best Material

Quality engineering plastics Using ultrasonic transmitter Using high-quality waterproof cables

-> Features

High detection and measurement accuracy Support multiple signal output Multi-range measurement range is optional Small beam angle design





→ Comprehensive protection design

IP66 protection level, dust-proof and waterproof washing, high protection level can be customized.

→ Multiple installation options

Supports M49x1.5mm screw hole screw-in installation and coil clamp installation for easy installation

→ Multi-type output optional

- 4 ~ 20MA three-wire system (default)
- 4 ~ 20MA two-wire system
- 4 ~ 20MA four-wire system
- 1 ~ 5V. RS485 and other signal outputs



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MORE MODEL TYPES



INSTALLATION ATTENTIONS

1) Measuring range and Requirements of blind zone.

2) Media type to be measured (Liquid or solid, such as: Water, sewage, mud, gasoline, diesel oil, toluene, sulfur dioxide, ore, coal, cement, soybeans, wheat, corn, flour etc.)

If it is liquid: Is there liquid steam, mist, foam, wave, stirring, floating objects;

If it is solid: Is there a dust, granular or powder media is.

3) The minimum ~ maximum temperature and pressure of media.

4) Corrosion of media. If it is placed inside the jar, the jar needs to know the material, and if there is corrosion of the lining.

5) The need for anti-corrosion, explosion-proof, to split or an integrated one.

6) Working environment: exposure to the pond, cover the pond, lying tank, vertical tank, tank, pot is through atmospheric pressure and so on.

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ORDER GUIDE

By Customized

SUL801-1-2-3-4-5-6

① Range		6 Cable Leng	6 Cable Length	
leter	01	1 Meter	0	
/leter	02	2 Meter	0	
5 Meter	15	4		
② Water Proof		⑤ Temperatur	re	
266	A	050 °C	Т	
65	В	-1060 °C	Т	
67	С	-2070 °C	Т	
268	D			
		④ Power Supp	da.	
③ Output			ny	
③ Output Current Output (4-20mA 2 wires)	A2	DC12V/max 300mA	U ^r	
③ Output Current Output (4-20mA 2 wires) Current Output (4-20mA 3 wires)	A2 A3	DC12V/max 300mA DC24V/max 300mA	U U	
③ Output current Output (4-20mA 2 wires) current Output (4-20mA 3 wires) current Output (4-20mA 4 wires)	A2 A3 A4	DC12V/max 300mA DC24V/max 300mA DC12V/max 300mA Ex		
③ Output Current Output (4-20mA 2 wires) Current Output (4-20mA 3 wires) Current Output (4-20mA 4 wires) Switch output (1 or 2 switches)	A2 A3 A4 N1/N2	DC12V/max 300mA DC24V/max 300mA DC12V/max 300mA Ex		
③ Output Current Output (4-20mA 2 wires) Current Output (4-20mA 3 wires) Current Output (4-20mA 4 wires) Switch output (1 or 2 switches) Relay (Upper & Lower alarm)	A2 A3 A4 N1/N2 R1	DC12V/max 300mA DC24V/max 300mA DC12V/max 300mA Ex		
③ Output Current Output (4-20mA 2 wires) Current Output (4-20mA 3 wires) Current Output (4-20mA 4 wires) Switch output (1 or 2 switches) Relay (Upper & Lower alarm) Voltage output (0-5V)	A2 A3 A4 N1/N2 R1 V0	DC12V/max 300mA DC24V/max 300mA DC12V/max 300mA Ex		
③ Output Current Output (4-20mA 2 wires) Current Output (4-20mA 3 wires) Current Output (4-20mA 4 wires) Switch output (1 or 2 switches) Relay (Upper & Lower alarm) Voltage output (0-5V) Voltage output (1-5V)	A2 A3 A4 N1/N2 R1 V0 V1	DC12V/max 300mA DC24V/max 300mA DC12V/max 300mA Ex		

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