

SLS3200 Wireless Liquid Level Transmitter

MAIN FEATURES

- Wireless transmission without single point wiring
- Hybrid ad hoc network, low communication cost
- Level sensor probe and material can be customized
- Lithium battery powered, can work in the wild environment



OVERVIEW

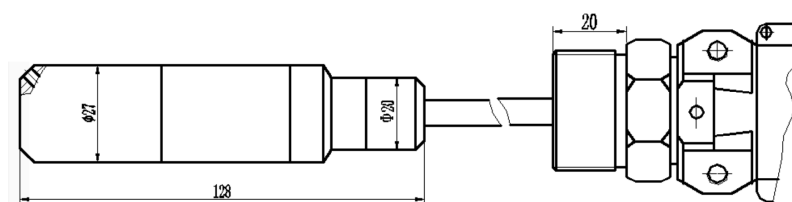
SLS3200 wireless level transmitter adopts micro-power wireless communication mode, no wiring is required, installation is faster, safer and more convenient. It has built-in high-precision pressure sensor, which can accurately display the pressure in real time, and has the characteristics of high stability and long-term stability. This type of digital level gauge is equipped with large-scale HD LCD display and built-in MCU. With mature GFSK/Lora/4G/IOT network, the on-site pipeline pressure is uploaded to the data center.

Or, it is can be matching with wireless switching device, which can convert many wireless pressure signals into MODBUS standard signals and transmit them through Ethernet or serial port.

SPECIFICATION

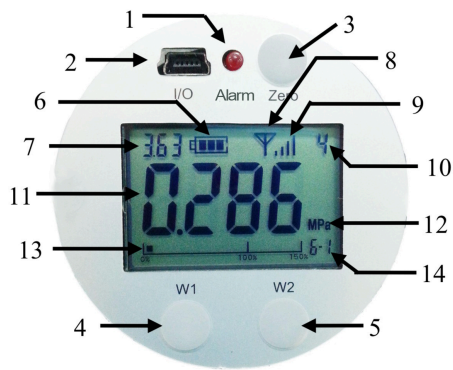
Range	0m~0.5m...300m
Overload capability	≤ 2 times full scale
Pressure Type	G (gauge pressure), A (absolute pressure)
Accuracy	0.1% (custom), 0.25% (typical), 0.5% (maximum)
Long-term stability	±0.1%FS/year (typical), ±0.2%FS/year (maximum)
Zero temperature drift	±0.03%FS/°C, ±0.02%FS/°C
Sensitivity temperature drift	±0.03%FS/°C, ±0.02%FS/°C
Compensation temperature	0°C~50°C(typical), -10°C~65°C
Working temperature	-30°C~65°C
Power supply	7200mAh disposable lithium battery; 38000 mAh disposable lithium battery; 26000 mAh disposable lithium battery, solar rechargeable battery
Sensor chip	German chips approved by Semtech
Output Signal	Lora/4G/NB-IOT/GFSK SWSN
Reporting period	1-255 seconds (GFSK standard); 1-999 minutes (LORA); 1 minute-12 hours (NB-IOT standard; 4G full Netcom)
Display	4-digit LCD, 0~3 decimal point can be set
Transmission power	≤ 40mW
Protection level	IP68
Explosion-proof grade	⊕ II 1G Ex ia da op is IIC T4 Ga
Process interface:	customized according to customer requirements

TYPICAL DIMENSION



Unit: mm

PANEL INTRODUCTION



Code	Description	Code	Description
1	Over-limit alarm indicator, flashing when the level exceeds the limit	8	Signal indication
2	Debug interface	9	Signal strength indication
3	Clear button, press 2 seconds to clear drift when level zero drifts	10	Channel indication
4	Calibration button 1	11	Level value
5	Calibration button 2	12	Level unit
6	Battery indicator	13	Level fullness indication
7	Battery voltage indication	14	Group number and number

SENSOR PROBE STRUCTURE

MODEL	FEATURE	OUTLINE CONSTRUCTION
SLS3201	<ol style="list-style-type: none"> Classic structure; O-ring seal; Standard shape. 	
SLS3202	<ol style="list-style-type: none"> All welded structure; The pressure sensitive film moves forward and is easy to clean. 	
SLS3203	<ol style="list-style-type: none"> Integrated measurement of liquid level/temperature; All welded structure. 	
SLS3204	<ol style="list-style-type: none"> Deep water dedicated, the deepest up to 300m; All welded structure, shell material can be customized. 	

ORDER CODE

Code:	A	-	B	-	C	-	D	-	E	-	F
Model:	SLS3201	-	5m	-	S	-	P1	-	L5	-	WZ

Model	Code A
Classic structure type	3201
All welded type	3202
Integrated measurement of liquid level/temperature type	3203
Deep water type	3204
Level Range(X=specific range)	Code B
0m~0.5m...300m	X m
Accuracy	Code C
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
Cable material	Code D
PVC	P1
Polytetrafluoro(PTEF)	P2
Polyethylene(PE)	P3
PUR	P4
Steel wire	S1
High temperature line	H1
Flame retardant cable	F1
Other customized	C

Cable length	Code E
1m	L1
5m	L5
....	...
300m	L300
Output signal	Code F
Zigbee	WZ
Lora	WL
4G	W4
More customized	C

Remarks:

1. Please note that the measured medium is compatible with the product part of the contact medium when selecting the type. If you are not sure, please refer to the media compatibility table on the back cover of the instruction manual or consult our company.
2. Please indicate the appropriate measurement range and accuracy requirements when ordering. To ensure product stability and accuracy, it is recommended that the pressure transmitter range be selected based on 120% of the actual measured pressure range. The maximum pressure should be within the measurement range.
3. In order to ensure the reliable operation of outdoor products, users are advised to order transmitters equipped with lightning protection. Ensure that the product and power supply are reliably grounded during installation to reduce the probability of lightning damage to the transmitter.
4. When selecting digital display products, the working temperature range of the transmitter is -30°C~70°C.
5. The product is installed vertically on the field pressure interface, and the display level is facing the observer.
6. For medium containing silt sand, the transmitter head needs to take protective measures such as filtering measures to prevent the pressure measuring hole from being clogged or the particles from scratching the diaphragm.
7. When using in hazardous environment such as inflammable and explosive, please install safety barrier according to the regulations. The cable connection should be sealed and reliable. Tighten the junction box cover before powering up to ensure that the transmitter cavity is isolated from the environment. When cleaning, repairing or modifying parameters, the power must be completely removed, the transmitter removed, and moved to a safe environment for processing. On-site live operation is strictly prohibited.