

SLS3220 Wireless Level Transmitter

MAIN FEATURES

- Wireless output; eliminates the need for complex wiring and installation
- Ultra-low power design; standby current as low as 10 μ A (30 μ A with LCD display)
- Customizable sampling intervals, communication intervals, and standby durations (ranging from 60 seconds to 24 hours)
- Powered by a high-capacity 40,000mAh battery with a lifespan of 3-5 years; accessible battery design allows for easy replacement
- Data storage function ensures no data loss during network outages
- Remote configuration of device parameters
- Built-in Bluetooth 5.0 for easy functional expansion
- Magnetic switch design allows for routine operations without opening the housing cover
- High-performance diffused silicon sensor paired with an advanced, highly integrated signal conditioning chip designed for bridge-type pressure sensors
- High sensitivity, high precision, and high stability
- Full-temperature range compensation; excellent electrical performance and long-term stability



OVERVIEW

SLS3220 battery-powered wireless level transmitter features an ultra-low power design, supports multiple communication protocols, and is easy to install and use. It is widely applicable to automated liquid level measurement and monitoring network systems for fluids such as water and oil.

SPECIFICATION

Measurement range	0-1 km
Overload pressure	200% FS
Process connection	-
Combined accuracy	$\pm 0.5\%$, $\pm 0.2\%$, $\pm 0.1\%$, $\pm 0.075\%$ (selectable)
Temperature compensation range	-10 to 70°C
Long-term stability	$\pm 0.3\%$ FS/year
Operating temperature	-40 to 85°C
Storage temperature	-40 to 125°C
Supply voltage	3.6 VDC lithium battery, 40,000 mAh
Communication method	NB-IoT/LoRa/ZigBee/4G/Bluetooth
Communication protocol	CoAP/MQTT/LoRaWAN/CLAA/IEEE 802.15.4/Bluetooth 5.0
Communication interval	60 seconds (customizable)
Ingress protection	IP68 (sensor section), IP67 (housing)
Media compatibility	Various fluids non-corrosive to 304 stainless steel
Vibration	10 g RMS (20-2000 Hz)
Shock	100 g, 11 ms
Insulation	>100 M Ω @ 250 VDC
Response time	<1 ms (@ 90% FS)
CE certification	EMC: IEC 61326-1 Class B Electrostatic discharge immunity: IEC 61000-4-2 Electromagnetic field immunity: IEC 61000-4-3 EFT immunity: IEC 61000-4-4 Surge immunity: IEC 61000-4-5

ORDER CODE

Code:	A	–	B	–	C	–	D	–	E	–	F
Model:	SLS3220	–	5m	–	S	–	P1	–	L5	–	WZ

Model	Code A
Classic structure type	3220
More customized	C
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
Bluetooth	BT
Zigbee	ZB
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.

TYPICAL DIMENSION

Unit: mm

