

SensorsX SX-LHNB Series

Level Transmitter

Hydrostatic Level Transmitter



WIDE MEASURING RANGE

Gauge: 2 kPa to 2 MPa; absolute: 5 kPa to 2 MPa

MULTIPLE OUTPUT OPTIONS

4–20 mA, 0–20 mA, 1–5 V, 0–5 V or 0–10 V

HIGH PROTECTION RATING

IP68 submersible probe; IP67 junction box

■ PRODUCT OVERVIEW

The SX-LHNB Series is a Hydrostatic level transmitter designed for continuous liquid-level measurement in tanks, wells, and similar applications. It supports gauge, compound gauge, and absolute pressure configurations, with accuracy options of 0.2% F.S. and 0.5% F.S. Multiple output signals, probe materials, connection types, and temperature configurations are available to meet different measurement requirements.

■ KEY FEATURES

- Gauge, compound gauge, and absolute pressure configurations.
- Accuracy options of 0.2% F.S. and 0.5% F.S.
- Multiple outputs including 4–20 mA, 0–20 mA, 1–5 V, 0–5 V and 0–10 V.
- 12–30 V DC operating supply.
- IP68 submersible probe and IP67 junction box protection.
- 304 or 316 stainless-steel probe construction.
- Cable-mounted or rod-mounted probe configurations.
- Standard, flush and semi-flush pressure-port options.
- Optional HART and RS485/Modbus RTU outputs.
- Intrinsically safe Ex ia IIC T6 and flameproof Ex d IIC T6 versions available.

■ TYPICAL APPLICATIONS

Wells, Tanks & Reservoirs

- Groundwater well level monitoring
- Water tank / reservoir level
- Rainwater / stormwater level

Industrial & Wastewater Process

- Wastewater lift-station level control
- Sump and pit level monitoring
- Process tank level (chemical-compatible construction)

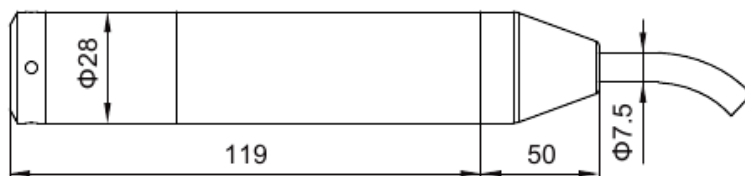
Sanitary & Hazardous Installations

- Sanitary/food-grade tank level (sanitary insertion type)
- Explosion-protected area installations

■ MAIN TECHNICAL PARAMETERS

Parameter	Specification
Measuring range	Gauge pressure: minimum range 2 kPa; maximum range 2 MPa Negative gauge pressure: minimum range -2 kPa; maximum range -100 kPa Absolute pressure: minimum range 5 kPa; maximum range 2 MPa
Accuracy class	0.2% F.S.; 0.5% F.S.
Operating voltage	12-30 VDC; 24 VDC
Output signal	4-20 mA; 0-20 mA; 1-5 VDC; 0-10 VDC; 0-5 VDC; available on request or custom options available on request
Temperature range	Compensated temperature: 0-50 °C or -10-80 °C; available on request or custom options available on request Medium temperature: -10-70 °C Operating temperature: -10-70 °C Storage temperature: -20-70 °C
Temperature effect	0.02% F.S./°C
Electrical connection	Direct lead wire; terminal connection; available on request or custom options available on request
Ingress protection	Submersible probe: IP68; junction box: IP67
Installation	M42 × 1.5 male thread; DN50 PN1.0 MPa flange; available on request or custom options available on request
Vibration resistance	20 g; 20-5000 Hz
Shock resistance	100 g; 11 ms
Probe material	304 stainless steel; 316 stainless steel
Service life	>1 × 10 ⁸ pressure cycles

■ SX-LHNB SERIES DIMENSIONAL DRAWING (REFERENCE)



Unit: mm

■ SX-LHNB ORDER CODE SELECTION TABLE

Complete model number example: **SX-LHNB.GCF4M4CA5000mm1000mm2AS**

Pressure Type	
G	Gauge pressure
N	Compound gauge pressure
A	Absolute pressure
Probe Connection	
C	Cable-mounted
P	Rod-mounted; connection length less than 3 m
Output	
F	4-20 mA, two-wire
H	4-20 mA/HART
S	RS485/Modbus RTU
V	1-5 V
Probe Wetted Material	
4	304 stainless steel
6	316 stainless steel
5	Stainless steel with PTFE coating
3	PVC
Connection Type	
M	Without
E	DN50 PN10 flange
T	M42 × 1.5 male
Connection Wetted Material	
3	PVC
C	PUR
4	304 stainless steel
6	316 stainless steel
Temperature Version	

C	Normal-temperature type, ≤80 °C
T	High-temperature type, ≤200 °C
Pressure Port Type	
A	Standard type
B	Flush type
C	Semi-flush type
Level Range	
2000 mm	2000 mm (Gauge or compound gauge pressure option)
200000 mm	200000 mm
-2000 mm	-2000 mm (Gauge or compound gauge pressure option)
-10000 mm	-10000 mm (Gauge or compound gauge pressure option)
3000 mm	3000 mm (Gauge or compound gauge pressure option)
4000 mm	4000 mm (Gauge or compound gauge pressure option)
5000 mm	5000 mm
8000 mm	8000 mm
10000 mm	10000 mm
20000 mm	20000 mm
30000 mm	30000 mm
50000 mm	50000 mm
100000 mm	100000 mm
Probe Connection Length	
1000 mm	1000 mm
2000 mm	2000 mm
3000 mm	3000 mm
Accuracy	
2	0.2%
5	0.5%
Display	
A	Without
C	LCD digital range display
Explosion Protection	
S	Without
I	Intrinsically safe, Ex ia IIC T6
D	Flameproof, Ex d IIC T6
Optional	
D	Customized information; specify in order remarks