

SensorsX SX-PDDB Series

Industrial Remote Seal Differential Pressure Transmitter

Industrial Process Measurement | Level | Density | Pressure | Flow



0–1 kPa to 0–2 MPa Zero-Based Measuring Range	4–20 mA / HART / Modbus / PA Output	IP67 Ingress Protection
–40 to +85 °C Ambient Temperature	ATEX (option) Explosion Proof	9–36 V DC Power Supply

■ PRODUCT OVERVIEW

The SX-PDDB series remote seal differential pressure transmitter uses a diaphragm seal assembly to prevent process media from directly entering the pressure sensor of the differential pressure transmitter; pressure is transmitted via fill fluid (such as silicone oil) through capillary tubing. The SX-PDDB series is used to measure level, density, pressure, and flow of liquids, gases, or steam, converting the measurement to a 4–20 mA DC HART signal output. It also supports HART, Profibus PA, and RS-485-Modbus communication protocols. The zero-based measuring is 0–1 kPa to 2 MPa (0–0.145 to 290 psi). Remote seal flange rated pressures are: 1.6/4 MPa, 6.4 MPa, 10 MPa, 150 psi, 300 psi, or 600 psi.



Typical Measurements

- Differential pressure • Level • Density

■ KEY FEATURES

◆ Wide Measuring Range — 0–1 kPa to 0–2 MPa (0.145 to 290 psi), continuous turndown adjustment	◆ Remote Seal Protection — Diaphragm seal assembly prevents process media from contacting sensor
◆ Multiple Fill Fluids — Silicone, HT silicone, Ultra-HT silicone, Vegetable oil, Ultra-LT fluid	◆ Multiple Flange Options — Flush or insertion type; DN 50 / DN 80 / DN 100 / DN 2" / DN 3" / DN 4"; DIN 2501 & ANSI B16.5
◆ Flexible Capillary Length — 1–12 m (3.3–39.4 ft); 304 stainless steel or 316 stainless steel; optional PVC sheath	◆ Versatile Output & Communication — 4–20 mA HART, RS-485-Modbus, or Profibus PA
◆ Hazardous Area Certified — Intrinsic safety ATEX and Flameproof ATEX (optional)	◆ Rugged Housing — Aluminum alloy (epoxy coated) or 316 stainless steel; IP67; up to 360° housing rotation

■ TYPICAL APPLICATIONS

Industries Served

- Oil & Gas
- Petrochemical & Chemical
- Metal Smelting
- Power Generation
- Water & Wastewater
- Pulp & Paper
- Food & Beverage
- Pharmaceutical
- Marine & Offshore

■ PERFORMANCE SPECIFICATIONS

Table 1 — Span Code vs. Measuring Span/Range

Code	Min. Span	Max. Span	Max. Rated Pressure
B	1 kPa (0.145 psi)	6 kPa (0.87 psi)	Remote seal flange rated pressure
C	4 kPa (0.58 psi)	40 kPa (5.8 psi)	Remote seal flange rated pressure
D	25 kPa (3.6 psi)	250 kPa (36.3 psi)	Remote seal flange rated pressure
E	100 kPa (14.5 psi)	1 MPa (145 psi)	Remote seal flange rated pressure
F	200 kPa (29 psi)	3 MPa (435 psi)	Remote seal flange rated pressure

Note: The minimum span of the remote seal transmitter shall be the larger of the values in Table 1 and Table 2. The adjusted span shall not be less than the minimum span. The maximum span shall be the smaller of the transmitter body max. span and the remote seal flange rated pressure.

Table 2 — Remote Seal Flange vs. Minimum Span

Level Flange	Nominal Diameter	Min. Span (Single Remote Seal)	Min. Span (Dual Remote Seal)
Flush	DN 50 / 2"	10 kPa (1.45 psi)	6 kPa (0.87 psi)
Flush	DN 80 / 3"	6 kPa (0.87 psi)	4 kPa (0.58 psi)
Flush	DN 100 / 4"	6 kPa (0.87 psi)	4 kPa (0.58 psi)
Insertion	DN 50 / 2"	16 kPa (2.32 psi)	6 kPa (0.87 psi)
Insertion	DN 80 / 3"	6 kPa (0.87 psi)	4 kPa (0.58 psi)
Insertion	DN 100 / 4"	6 kPa (0.87 psi)	4 kPa (0.58 psi)

Note: For optimal performance, select a turndown ratio < 10:1.

Measurement	
Measured Parameters	Differential pressure, Level
Measuring Range (zero-based)	0–1 kPa to 0–2 MPa (0–0.145 to 0–290 psi)
Span Lower Limit	Adjustable from –100 % URL (continuous)
Span Upper Limit	Adjustable to +100 % URL (continuous)
Response Time	
Amplifier Damping	0.1 s
Sensor + Seal Time Constant	0.2–6 s (depends on range, turndown, capillary length, fill fluid viscosity)
Additional Adjustable Damping	0.1–60 s

Table 3 — Fill Fluid Properties

Fill Fluid	Silicone (S)	HT Silicone (H)	Ultra-HT Silicone (U)	Vegetable Oil (V)	Ultra-LT Fluid (L)
Density at 25 °C (68 °F)	960 kg/m ³	980 kg/m ³	1020 kg/m ³	937 kg/m ³	1020 kg/m ³
Working Temp. Range	–40 to +220 °C (–40 to +428 °F)	–10 to +350 °C (+14 to +662 °F)	–10 to +450 °C (+14 to +842 °F)	0 to +250 °C (+32 to +482 °F)	–100 to +100 °C (–148 to +212 °F)
Temperature → Min. Working Static Pressure (kPa abs.)					
20 °C (68 °F)	>10	>10	>10	>25	>10
100 °C (212 °F)	>25	>25	>25	>50	>25
150 °C (302 °F)	>50	>50	>50	>75	—
200 °C (392 °F)	>75	>75	>75	>100	—
250 °C (482 °F)	—	>100	>100	>100	—
350 °C (662 °F)	—	>100	>100	—	—
400 °C (752 °F)	—	—	>100	—	—

Note: For fill fluid/working temperature/minimum working static pressure combinations outside the ranges listed, special design may be required.

■ INSTALLATION

Transmitter Body Mounting

Mounting Position	Any position; optimal with process flange axis vertical; position deviation produces a correctable zero offset
Housing Rotation	Electronic housing rotatable up to 360°; lockable at any position with set screw

Remote Seal Flange Connection

Mating Flange	Compatible with ANSI or DIN standard mating flanges with soft gasket and fasteners (fasteners available as user-selectable accessories)
Dual Remote Seal — Capillary	Capillary assembly and both remote seal flanges should be installed at the same ambient temperature
Minimum Capillary Bend Radius	75 mm (2.95 in) — DO NOT coil the capillary

■ ELECTRICAL SPECIFICATIONS

Power

Supply Voltage	9–36 V DC (13.5 V DC minimum with backlit LCD or OLED display)
Maximum Supply Voltage	36 V DC
Minimum Supply Voltage	9 V DC

Output Signal

Analog Output	4–20 mA, 2-wire, loop-powered; linear or square-root selectable
Output Limits	I _{min} = 3.9 mA / I _{max} = 20.5 mA
Alarm Current — Low (min.)	3.6 mA
Alarm Current — High (max.)	21 mA
Alarm Current — Hold	Holds last valid output value
Default Alarm Mode	High (max.)
Digital Communication	HART RS-485-Modbus Profibus PA (select on order)

Electrical Connection

Cable Entry	M20×1.5 or ½ NPT female thread (standard: M20×1.5 nylon cable gland)
Wire Cross-Section	0.5–2.5 mm ²
Digital Comm. Load	250–600 Ω

■ ENVIRONMENTAL SPECIFICATIONS

Temperature

Ambient Operating Temperature	Min.: depends on fill fluid / Max.: +85 °C (+185 °F)
— With LCD display or FKM seal	–20 to +65 °C (–4 to +149 °F)
Storage / Transport Temperature	Min.: depends on fill fluid / Max.: +85 °C (+185 °F)
Process Temperature	–30 to +400 °C (–22 to +752 °F)
Relative Humidity	0–100 % (non-condensing)

Mechanical & Environmental

Shock Resistance	50 g / 11 ms (IEC 60068-2-27)
Vibration Resistance	2 g up to 500 Hz (IEC 60068-2-6)
Ingress Protection	IP67 (IEC 60529)

Process Connection & Pressure Limits	
Transmitter Body Pressure Limit	3.5 kPa abs. to rated pressure; protection pressure up to 1.5× rated pressure (applied simultaneously to both sides)
Remote Seal Flange Rated Pressure	ANSI B16.5: 150 psi – 600 psi DIN 2501: PN 1.6 MPa – PN 10 MPa
One-Side Overload Limit	Low-pressure side: transmitter body rated pressure; high-pressure side: remote seal flange rated pressure (correctable zero drift may occur)
EMC	
Compliance	IEC CISPR 22 / IEC 61000-4 series

EMC Supplement Table

No.	Test Item	Basic Standard	Test Condition	Performance Level
1	Radiated Interference (housing)	IEC CISPR 22 Class B	30 MHz – 1000 MHz	Pass
2	Conducted Interference (DC power port)	IEC CISPR 22 Class B	0.15 MHz – 30 MHz	Pass
3	Electrostatic Discharge (ESD) Immunity	IEC 61000-4-2	4 kV (contact) / 8 kV (air)	B
4	Radiated RF Electromagnetic Field Immunity	IEC 61000-4-3	10 V/m (80 MHz – 1 GHz)	A
5	Power Frequency Magnetic Field Immunity	IEC 61000-4-8	30 A/m	A
6	Electrical Fast Transient / Burst (EFT) Immunity	IEC 61000-4-4	2 kV (5/50 ns, 5 kHz)	B
7	Surge Immunity	IEC 61000-4-5	1 kV (line-to-line) / 2 kV (line-to-earth) (1.2 µs/50 µs)	B
8	Conducted RF Disturbance Immunity	IEC 61000-4-6	3 V (150 kHz – 80 MHz)	A

Note: (1) Performance Level A: During testing, performance is normal within the limits of the technical specification. (2) Performance Level B: During testing, function or performance is temporarily degraded or lost, but self-recovers; actual operating state, stored data and configuration are not changed.

■ PROCESS CONNECTIONS & WETTED MATERIALS

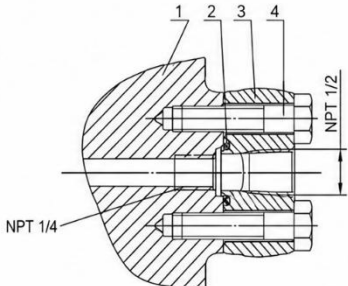
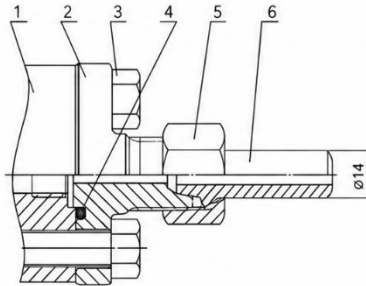
Transmitter Body — Low-Pressure Side	
Thread	¼" NPT female & 7/16" UNF female
Transmitter Body — High-Pressure Side (Remote Seal Flange)	
Standard	ANSI B16.5 or DIN 2501
Materials in Contact with Medium	
Measuring Cell	316L stainless steel
Diaphragm	316L stainless steel Hastelloy C Tantalum
Process Flange	304 stainless steel
Fasteners (Bolts & Nuts)	Stainless steel
Fill Fluid	Silicone oil HT silicone oil Ultra-HT silicone oil Food-grade fill fluid
Housing	
Transmitter Housing	Aluminum alloy (epoxy coated) Stainless steel (optional)
Housing Seal	EPDM (ethylene propylene diene monomer)
Nameplate	304 stainless steel
Weight (approximate)	
Single Remote Seal — DN 50 / 2"	approx. 7–10 kg

Single Remote Seal — DN 80 / 3"	approx. 8–11 kg
Single Remote Seal — DN 100 / 4"	approx. 9–12 kg
Dual Remote Seal — DN 50 / 2"	approx. 10–16.5 kg
Dual Remote Seal — DN 80 / 3"	approx. 12–18 kg
Dual Remote Seal — DN 100 / 4"	approx. 14–21 kg

Pressure Connection Accessories (optional)

Code 1	½" NPT female thread stainless steel oval flange
Code 2	M20×1.5 male thread stainless steel T-fitting

Process Flange Connection

Process Flange Connectors	
1/2-NPT Stainless Steel Oval Flange (Code 1)  1. Pressure Chamber Flange 2. O-ring Seal 3. NPT 1/2 Oval Flange 4. Bolt	M20×1.5 Stainless Steel T-Shaped Connector (Code 2)  1. Pressure Chamber Flange 2. M20 × 1.5 T-shaped Male Thread Connector 3. Bolt 4. O-ring Seal 5. M20 × 1.5 Nut 6. Impulse Tube

■ COMMUNICATION PROTOCOLS

HART (4-20 mA / HART) — Output Code H

Protocol	HART
Output Mode	Linear or square-root selectable

Modbus RTU — Output Code M

Interface	RS-485 (Modbus)
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Profibus PA — Output Code P

Profile	Profibus PA
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■ CERTIFICATIONS & APPROVALS

Explosion Protection

ATEX — Intrinsic Safety	Available (select Code B in Explosion Proof field)
ATEX — Flameproof	Available (select Code E in Explosion Proof field)

General Compliance

Ingress Protection	IP67 (IEC 60529)
EMC	IEC CISPR 22 / IEC 61000-4 series (see Environmental Specifications)

■ MECHANICAL DIMENSIONS

Table 5 — Remote Seal Flange Dimensions (all dimensions in mm)

Nominal Diameter	Rated Pressure	ΦD	ΦK	Φd1	Φd2	Φd3	t (mm)	b (mm)	Bolt Qty	Thread
DN 50 (DIN 2501, DIN 2526 E)	PN 1.6/4 MPa	165	125	48.3	57	102	3+0.5	20	4	M16
	PN 6.4 MPa	185	135	48.3	57	102	3+0.5	26	4	M20
	PN 10 MPa	195	145	48.3	57	102	3+0.5	28	4	M20
DN 80 (DIN 2501, DIN 2526 E)	PN 1.6/4 MPa	200	160	76	75	138	3+0.5	24	8	M16
	PN 6.4 MPa	215	170	76	75	138	3+0.5	28	8	M20
	PN 10 MPa	230	180	76	75	138	3+0.5	32	8	M24
DN 2" (ANSI B16.5 RF)	150 psi	152.4	120.6	48.3	57	92.1	3+0.5	17.4	4	M18
DN 2" (ANSI B16.5 RF)	300 psi	165.1	127.0	48.3	57	92.1	3+0.5	20.6	8	M18
DN 2" (ANSI B16.5 RF)	600 psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3" (ANSI B16.5 RF)	150 psi	190.5	152.4	76	75	127	3+0.5	22.2	4	M16
DN 3" (ANSI B16.5 RF)	300 psi	209.5	168.3	76	75	127	3+0.5	27.0	8	M20
DN 3" (ANSI B16.5 RF)	600 psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4" (ANSI B16.5 RF)	150 psi	229	191	89	89	157	3+0.5	30	8	M18
DN 4" (ANSI B16.5 RF)	300 psi	255	200	89	89	157	3+0.5	32	8	M18

Note: Sealing face per DIN 2526 Type E. Bolts/nuts available as user-selectable accessories.

Fig. 1 — Dual Remote Seal Arrangement (Flange-Mount, Basic Type) (units: mm)

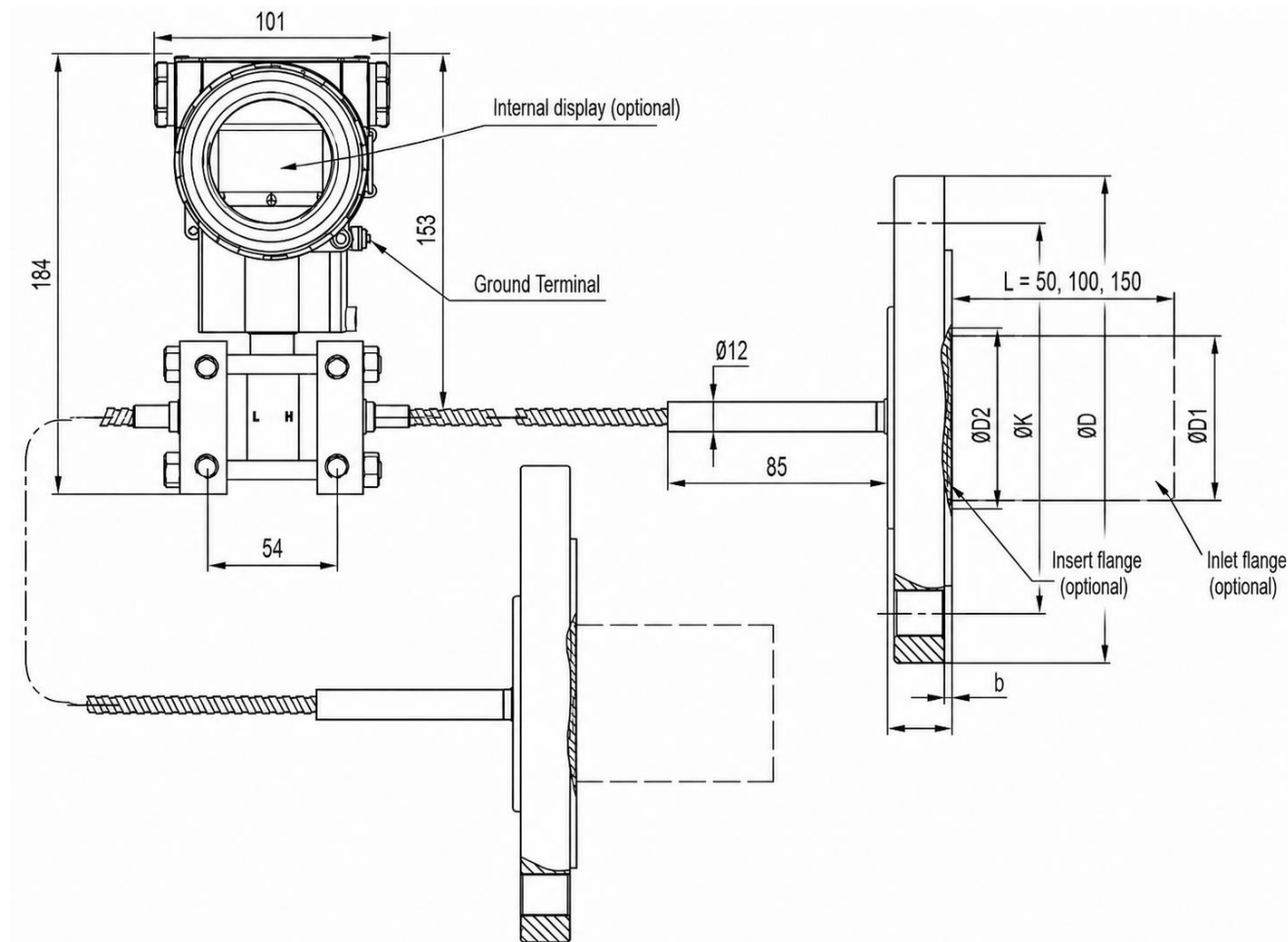
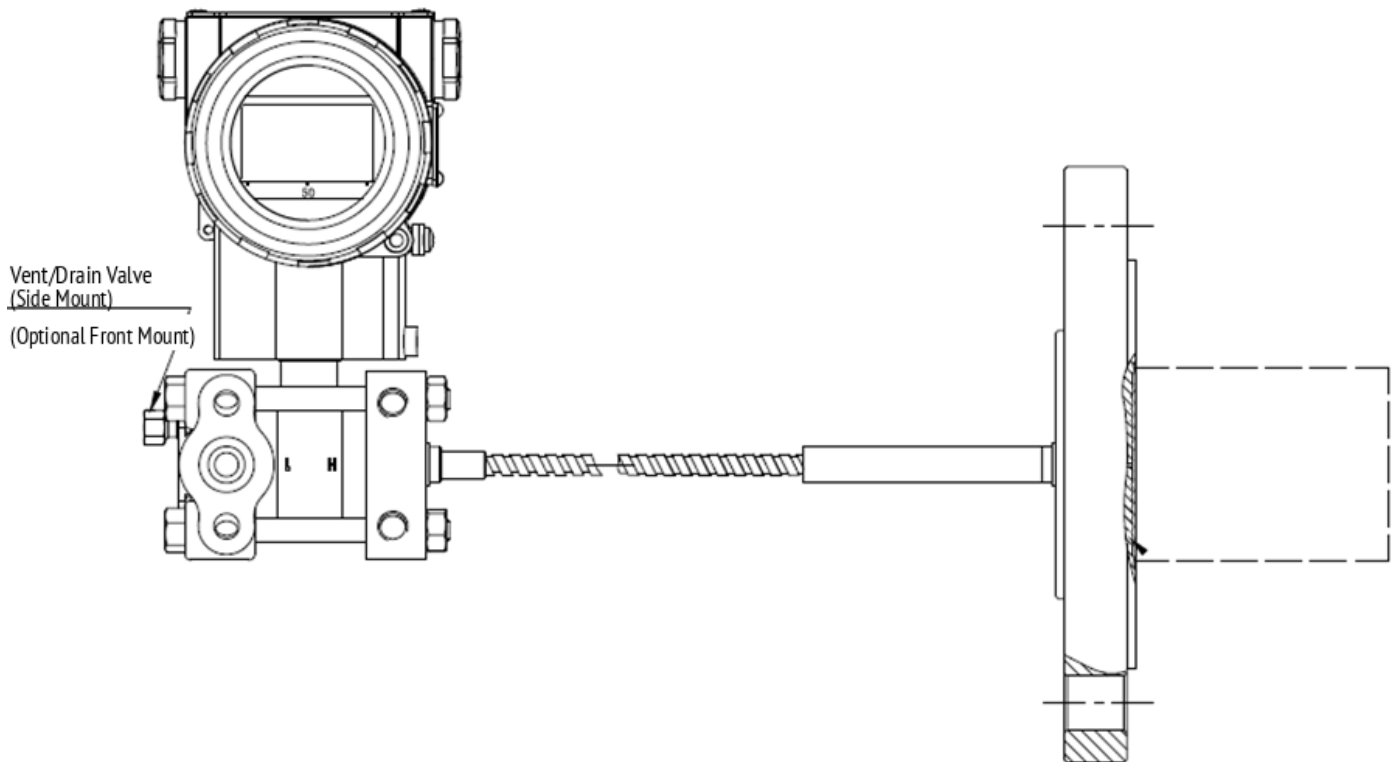


Fig. 2 — Single Remote Seal Arrangement (Flange-Mount, Basic Type) (units: mm)



Notes: (1) Single-side basic-type remote seal arrangement may be installed on either the high- or low-pressure side of the transmitter body. (2) Transmitter body mounting is the same as for SX-PDCB series differential pressure transmitters.

Fig. 3 — Dual Remote Seal Arrangement (Thread-Mount) (units: mm)

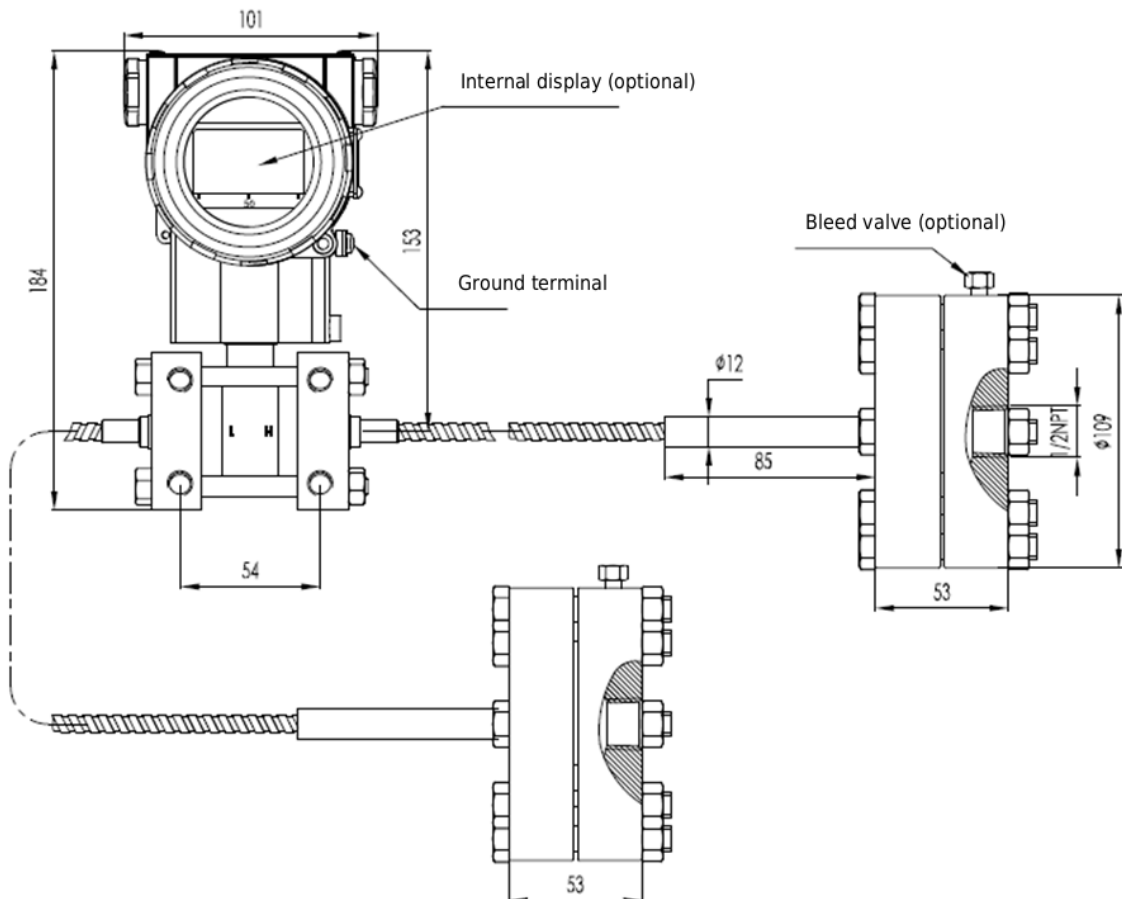
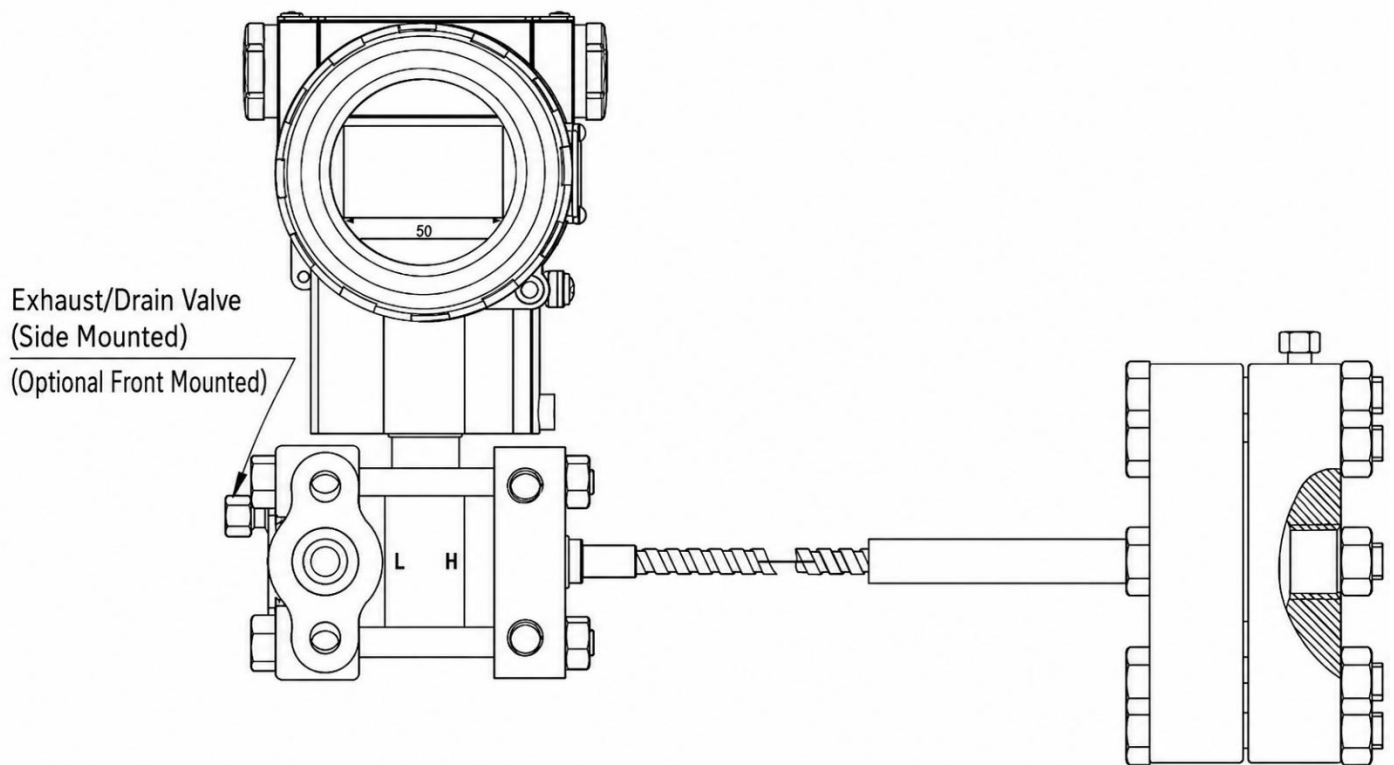


Fig. 4 — Single Remote Seal Arrangement (Thread-Mount) (units: mm)

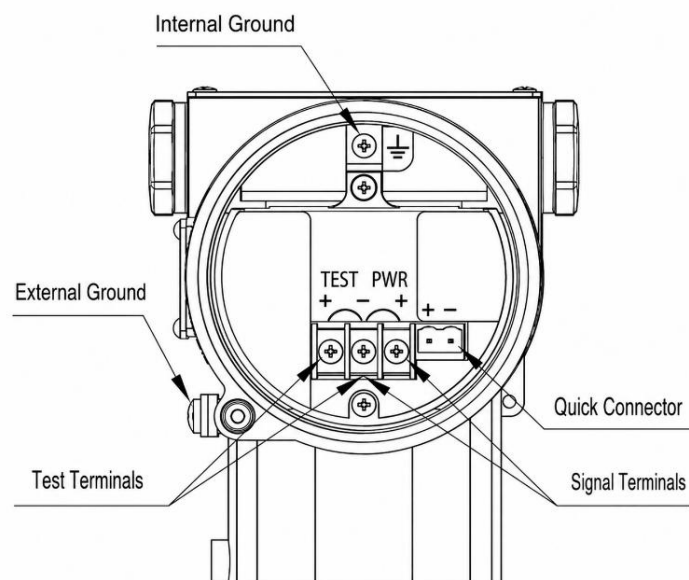


Notes: (1) Single-side thread-mount remote seal arrangement may be installed on either the high- or low-pressure side. (2) Transmitter body mounting is the same as for SX-PDCB series differential pressure transmitters.

■ WIRING DIAGRAM

4-20 mA / HART Loop Wiring

Note: Quick-connect port has equivalent function to signal terminals.



Terminal Assignment

Terminal (+) PWR / Signal +	Power / Loop + (4–20 mA)
Terminal (–) PWR / Signal –	Power / Loop – (4–20 mA)
TEST+ / TEST–	Loop test terminals (read mA without breaking loop)
⏏ Internal Ground	Internal chassis ground

External Ground

External protective earth terminal

※ Use shielded twisted-pair cable. Ground shield at one end only.

■ ORDERING INFORMATION — SX-PDDB SERIES (TRANSMITTER BODY)

Complete model number example: **SX-PDDB-BCOA1RNNNN2NNNENH**

Accuracy

B ±0.075 % FS

Differential Pressure Range

B 0–2 kPa to 0–6 kPa (0–20 to 600 mmH₂O / 0–20 to 60 mbar)

C 0–4 kPa to 0–40 kPa (0–40 to 400 mmH₂O / 0–40 to 400 mbar)

D 0–2.5 kPa to 0–250 kPa (0–0.25 to 25 mH₂O / 0–25 to 2500 mbar)

E 0–10 kPa to 0–1 MPa (0–1 to 100 mH₂O / 0–0.1 to 10 bar)

F 0–30 kPa to 0–3 MPa (0–3 to 300 mH₂O / 0–0.3 to 30 bar)

Static Pressure

0 Without

Diaphragm Material and Filling Fluid

A 316L stainless steel with Silicone oil

Maximum Working Pressure

1 16 MPa (2321 psi)

2 25 MPa (3626 psi)

Pressure Connection

RN ¼" NPT & 7/16" UNF threaded ports — without drain/vent valve

RB ¼" NPT & 7/16" UNF threaded ports — drain/vent valve on rear flange face

RU ¼" NPT & 7/16" UNF threaded ports — drain/vent valve on upper flange side

RD ¼" NPT & 7/16" UNF threaded ports — drain/vent valve on lower flange side

RR 7/16" UNF threaded port — dual remote seal flange arrangement

Sealing Material

N NBR

Safety Options

N Without

P Lightning protection

F Square root output

Mounting Bracket

N Without

1 Stainless steel

2 Galvanized carbon steel

Pressure Connection Accessories

N Without

1 ½" NPT female stainless steel oval flange

2 M20×1.5 male stainless steel T-fitting

Display

N Without

2 LED backlit LCD (min. ambient –20 °C / –4 °F)

3	OLED display (min. ambient -40 °C / -40 °F)
Explosion Proof	
N	Without (standard)
B	Intrinsic safety ATEX
E	Flameproof ATEX
Tag Plate	
N	Without
1	Tag number on nameplate
2	Hanging stainless steel tag plate
Manual	
E	Standard (English)
Housing Materials	
N	Aluminum alloy with M20×1.5
T	Aluminum alloy with NPT 1/2
S	316 stainless steel with M20×1.5
U	316 stainless steel with NPT 1/2
Output / Power Supply	
H	4–20 mA / HART
M	Modbus
P	Profibus PA
Additional Options	
N	without
V	Low-voltage version
Customized	
D	Customized — specify requirements in order remarks

Note: For pressure connection accessories or mounting brackets, please contact SensorsX Technology Inc.

■ ORDERING INFORMATION — SX-PLZB SERIES (REMOTE SEAL — FLANGE-MOUNT)

Note: Complete transmitter body (SX-PDDB) ordering selection before selecting the remote seal unit.

Complete model number example: **SX-PLZB-RHH1FS04PNN**

Seal Assembly Type	
RH	Diaphragm seal — vertical capillary outlet, with capillary, high-pressure (⊕) side
RL	Diaphragm seal — vertical capillary outlet, with capillary, low-pressure (⊖) side
SH	Diaphragm seal — horizontal capillary outlet, with capillary, high-pressure (⊕) side
SL	Diaphragm seal — horizontal capillary outlet, with capillary, low-pressure (⊖) side
Process Connection — Nominal Diameter, Facing, Seal Material & Diaphragm Material	
A	DN 50 DIN 2501 RF DIN 2526 — 316L stainless steel
B	DN 50 DIN 2501 RF DIN 2526 — Hastelloy C
C	DN 50 DIN 2501 RF DIN 2526 — Tantalum (temp. ≤ 200 °C / 392 °F)
H	DN 80 DIN 2501 RF DIN 2526 — 316L stainless steel
I	DN 80 DIN 2501 RF DIN 2526 — Hastelloy C
G	DN 80 DIN 2501 RF DIN 2526 — Tantalum (temp. ≤ 200 °C / 392 °F)
R	DN 100 DIN 2501 RF DIN 2526 — 316L stainless steel
S	DN 100 DIN 2501 RF DIN 2526 — Hastelloy C

T	DN 100 DIN 2501 RF DIN 2526 — Tantalum (temp. ≤ 200 °C / 392 °F)
D	DN 2" ANSI B16.5 RF ANSI B16.5 — 316L stainless steel
E	DN 2" ANSI B16.5 RF ANSI B16.5 — Hastelloy C
F	DN 2" ANSI B16.5 RF ANSI B16.5 — Tantalum (temp. ≤ 200 °C / 392 °F)
K	DN 3" ANSI B16.5 RF ANSI B16.5 — 316L stainless steel
L	DN 3" ANSI B16.5 RF ANSI B16.5 — Hastelloy C
M	DN 3" ANSI B16.5 RF ANSI B16.5 — Tantalum (temp. ≤ 200 °C / 392 °F)
N	DN 4" ANSI B16.5 RF ANSI B16.5 — 316L stainless steel
O	DN 4" ANSI B16.5 RF ANSI B16.5 — Hastelloy C
P	DN 4" ANSI B16.5 RF ANSI B16.5 — Tantalum (temp. ≤ 200 °C / 392 °F)
Rated Pressure, Pressure Class, Flange Standard & Flange Material	
1	PN 1/4 MPa — DIN 2501 — 304 stainless steel (DN 50, DN 80 only)
2	PN 6.4 MPa — DIN 2501 — 304 stainless steel (DN 50, DN 80 only)
3	PN 10 MPa — DIN 2501 — 304 stainless steel (DN 50, DN 80 only)
4	PN 1/1.6 MPa — DIN 2501 — 304 stainless steel (DN 100 only)
5	PN 2.5/4 MPa — DIN 2501 — 304 stainless steel (DN 100 only)
6	Class 150 — ANSI B16.5 — 304 stainless steel (DN 2", DN 3" only)
7	Class 300 — ANSI B16.5 — 304 stainless steel (DN 2", DN 3" only)
8	Class 600 — ANSI B16.5 (excl. DN 4") — 304 stainless steel (DN 2", DN 3" only)
9	Class 150 — ANSI B16.5 — 304 stainless steel (DN 4" only)
0	Class 300 — ANSI B16.5 — 304 stainless steel (DN 4" only)
A	PN 1/4 MPa — DIN 2501 — 316 stainless steel (DN 50, DN 80 only)
B	PN 6.4 MPa — DIN 2501 — 316 stainless steel (DN 50, DN 80 only)
C	PN 10 MPa — DIN 2501 — 316 stainless steel (DN 50, DN 80 only)
D	PN 1/1.6 MPa — DIN 2501 — 316 stainless steel (DN 100 only)
E	PN 2.5/4 MPa — DIN 2501 — 316 stainless steel (DN 100 only)
F	Class 150 — ANSI B16.5 — 316 stainless steel (DN 2", DN 3" only)
G	Class 300 — ANSI B16.5 — 316 stainless steel (DN 2", DN 3" only)
H	Class 600 — ANSI B16.5 (excl. DN 4") — 316 stainless steel (DN 2", DN 3" only)
I	Class 150 — ANSI B16.5 — 316 stainless steel (DN 4" only)
J	Class 300 — ANSI B16.5 — 316 stainless steel (DN 4" only)
Connection Type	
F	Flush type
H	Insertion — 316L stainless steel, insertion depth 50 mm (1.97 in); body material 316 stainless steel
I	Insertion — 316L stainless steel, insertion depth 100 mm (3.94 in); body material 316 stainless steel
G	Insertion — 316L stainless steel, insertion depth 150 mm (5.91 in); body material 316 stainless steel
L	Insertion — Hastelloy C, insertion depth 50 mm (1.97 in); body material 316 stainless steel
M	Insertion — Hastelloy C, insertion depth 100 mm (3.94 in); body material 316 stainless steel
N	Insertion — Hastelloy C, insertion depth 150 mm (5.91 in); body material 316 stainless steel
Fill Fluid	
S	Silicone oil -40 to +220 °C (-40 to +428 °F)
H	High-temperature silicone oil -10 to +350 °C (+14 to +662 °F)
L	Ultra-low-temperature fill fluid -100 to +100 °C (-148 to +212 °F)

V	Food-grade fill fluid -15 to +200 °C (+5 to +392 °F)
F	Fluorine oil -30 to +260 °C (-22 to +500 °F)
Capillary Length & Material	
00	without
01	1 m 304 stainless steel
02	2 m 304 stainless steel
03	3 m 304 stainless steel
04	4 m 304 stainless steel
05	5 m 304 stainless steel
06	6 m 304 stainless steel
07	7 m 304 stainless steel
08	8 m 304 stainless steel
09	9 m 304 stainless steel
10	10 m 304 stainless steel
11	11 m 304 stainless steel
12	12 m 304 stainless steel
...	...
51	1 m 316 stainless steel
52	2 m 316 stainless steel
53	3 m 316 stainless steel
54	4 m 316 stainless steel
55	5 m 316 stainless steel
56	6 m 316 stainless steel
57	7 m 316 stainless steel
58	8 m 316 stainless steel
59	9 m 316 stainless steel
60	10 m 316 stainless steel
61	11 m 316 stainless steel
62	12 m 316 stainless steel
...	...
Capillary Protection	
N	Without
P	PVC protective sheath
Diaphragm Seal Face Treatment	
NN	Without (standard)
22	DN 50/2" — PFA coating (perfluoroalkoxy) (temp. ≤ 260 °C / 500 °F)
23	DN 80/3" — PFA coating (perfluoroalkoxy) (temp. ≤ 260 °C / 500 °F)
24	DN 100/4" — PFA coating (perfluoroalkoxy) (temp. ≤ 260 °C / 500 °F)
32	DN 50/2" — PTFE-faced diaphragm (temp. ≤ 200 °C / 392 °F)
33	DN 80/3" — PTFE-faced diaphragm (temp. ≤ 200 °C / 392 °F)
34	DN 100/4" — PTFE-faced diaphragm (temp. ≤ 200 °C / 392 °F)
52	DN 50/2" — PFA coating (temp. ≤ 260 °C) (insertion depth 50 mm)
53	DN 80/3" — PFA coating (temp. ≤ 260 °C) (insertion depth 50 mm)

54	DN 100/4" — PFA coating (temp. ≤ 260 °C) (insertion depth 50 mm)
55	DN 50/2" — PFA coating (temp. ≤ 260 °C) (insertion depth 100 mm)
56	DN 80/3" — PFA coating (temp. ≤ 260 °C) (insertion depth 100 mm)
57	DN 100/4" — PFA coating (temp. ≤ 260 °C) (insertion depth 100 mm)
58	DN 50/2" — PFA coating (temp. ≤ 260 °C) (insertion depth 150 mm)
59	DN 80/3" — PFA coating (temp. ≤ 260 °C) (insertion depth 150 mm)
60	DN 100/4" — PFA coating (temp. ≤ 260 °C) (insertion depth 150 mm)
72	DN 50/2" — Gold-plated (flush type only)
73	DN 80/3" — Gold-plated (flush type only)
74	DN 100/4" — Gold-plated (flush type only)

Additional Options

NN	without
06	Vacuum service treatment (temp. ≥ 120 °C / 248 °F, working pressure ≤ 50 kPa abs. / 7.25 psi abs.)
08	Oil-free treatment

Customized

D	Customized — specify requirements in order remarks
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Notes: (1) PTFE-faced diaphragm is suitable for negative pressure measurement above 50 kPa abs., applicable only to flush-type level flanges. (2) When measured pressure or working static pressure < 50 kPa abs. (7.25 psi abs.), select option 06 to ensure performance.

■ ORDERING INFORMATION — SX-PLXB SERIES (REMOTE SEAL — THREAD-MOUNT)

Note: Complete transmitter body (SX-Pddb) ordering selection before selecting the thread-mount remote seal unit.

Complete model number example: **SX-PLXB-THU1S03PNN**

Seal Assembly Type

TH	Thread-mount — with capillary, high-pressure (⊕) side
TL	Thread-mount — with capillary, low-pressure (⊖) side

Seal Material & Wetted Diaphragm Material

U	304 stainless steel body — 316L stainless steel diaphragm
V	304 stainless steel body — Hastelloy C diaphragm
W	304 stainless steel body — Tantalum diaphragm (temp. ≤ 200 °C / 392 °F)
X	316 stainless steel body — 316L stainless steel diaphragm
Y	316 stainless steel body — Hastelloy C diaphragm
Z	316 stainless steel body — Tantalum diaphragm (temp. ≤ 200 °C / 392 °F)

Flush/Vent Port

1	Without
0	With

Fill Fluid

S	Silicone oil -40 to +220 °C (-40 to +428 °F)
H	High-temperature silicone oil -10 to +350 °C (+14 to +662 °F)
V	Food-grade fill fluid -15 to +200 °C (+5 to +392 °F)
F	Fluorine oil -30 to +260 °C (-22 to +500 °F)

Capillary Length & Material

00	without
01	1 m 304 stainless steel
02	2 m 304 stainless steel
03	3 m 304 stainless steel

04	4 m 304 stainless steel
05	5 m 304 stainless steel
06	6 m 304 stainless steel
07	7 m 304 stainless steel
08	8 m 304 stainless steel
09	9 m 304 stainless steel
10	10 m 304 stainless steel
11	11 m 304 stainless steel
12	12 m 304 stainless steel
...	...
51	1 m 316 stainless steel
52	2 m 316 stainless steel
53	3 m 316 stainless steel
54	4 m 316 stainless steel
55	5 m 316 stainless steel
56	6 m 316 stainless steel
57	7 m 316 stainless steel
58	8 m 316 stainless steel
59	9 m 316 stainless steel
60	10 m 316 stainless steel
61	11 m 316 stainless steel
62	12 m 316 stainless steel
...	...
Capillary Protection	
N	Without
P	PVC protective sheath
Diaphragm Seal Face Treatment	
NN	Without (standard)
Additional Options	
NN	without
06	Vacuum service treatment (temp. $\geq 120^{\circ}\text{C}$ / 248°F , working pressure $\leq 50\text{ kPa abs.}$ / 7.25 psi abs.)
Customized	
D	Customized — specify requirements in order remarks

Note: When measured pressure or working static pressure $< 50\text{ kPa abs.}$ (7.25 psi abs.), select option 06 to ensure performance.