

SensorsX SX-PTDB Series

Remote-Mount Process Pressure Transmitter

Pressure | Level | Density



±0.075 % FS Accuracy	0.6 kPa–25 MPa Gauge Range	4–20 mA / HART / Modbus Output Signal
IP67 Ingress Protection	ATEX Intrinsic Safety & Flameproof Explosion Protection	9–36 V DC Power Supply

Pressure | Level | Density

■ PRODUCT OVERVIEW

The SX-PTDB remote-mount process pressure transmitters measure liquid, gas, or steam level, density, and pressure, converting the measured value into a 4–20 mA DC HART output signal. HART, Profibus PA, and RS-485 Modbus communication protocols are also supported.

The remote seal diaphragm and capillary isolate the transmitter body from the process medium using fill fluid (such as silicone oil), preventing the process medium from directly contacting the pressure sensor. The measuring range (un-spanned) is 0–6 kPa to 25 MPa. Remote seal flange rated pressures: PN 1.6/4 MPa, PN 6.4 MPa, PN 10 MPa (DIN standard); Class 150, Class 300, Class 600 per ANSI B16.5.

Measured Variables

- Gauge and absolute pressure
- Tank and vessel level
- Density



■ KEY FEATURES

◆ Wide Measuring Range 0–6 kPa to 25 MPa gauge; remote seal flange rated for PN 1.6/4, 6.4, 10 MPa (DIN) and Class 150, 300, 600 (ANSI)	◆ 2-Wire 4–20 mA HART Output HART, Profibus PA, and RS-485 Modbus RTU communication protocols supported
◆ Remote Seal Design Process medium isolated by diaphragm — pressure transmitted via fill fluid through capillary to measuring sensor	◆ High Accuracy ±0.075 % FS accuracy
◆ Rotatable Electronic Housing Rotatable up to 360° and lockable in any position; direct mounting via remote seal flange	◆ Wide Temperature Range Process medium –40 to +450 °C (–40 to +842 °F) depending on fill fluid selection
◆ Ingress Protection IP67 per IEC 60529	◆ Explosion Protection ATEX Intrinsic Safety Ex ia IIC T4 Ga and Flameproof Ex d IIC T6 Gb (CE Directive 2014/34/EU)

■ TYPICAL APPLICATIONS

Typical Measurements

- Gauge and absolute pressure measurement of liquids, gases, or steam
- Tank and vessel level monitoring
- Density measurement

Industries Served

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

■ PERFORMANCE SPECIFICATIONS

Measurement	
Measured Variables	Gauge pressure, absolute pressure, level, density
Measuring Range (un-spanned)	Gauge: 0–6 kPa to 0–25 MPa Absolute: 0–6 kPa to 0–3 MPa <i>(See Pressure Range Code Table for individual range limits)</i>
Span Adjustment	Lower limit: Gauge down to –100 % URL; Absolute: 0–100 % URL (continuously adjustable) Upper limit: up to +100 % URL (continuously adjustable)

Accuracy	
Accuracy	±0.075 % FS

Response	
Amplifier Damping Constant	0.1 s
Sensor & Remote Seal Time Constant	0.2–6 s (depends on sensor range, turndown, capillary length, fill fluid viscosity)
Additional Adjustable Damping	0.1–60 s

■ ELECTRICAL SPECIFICATIONS

Power Supply	
Supply Voltage	9–36 V DC (without display) 13.5–36 V DC (with backlit LCD or OLED display)
Rated Supply Voltage	24 V DC
Maximum Load Resistance	$R \leq (U_s - 12 \text{ V}) / I_{\text{max}} \text{ k}\Omega$ where $I_{\text{max}} = 23 \text{ mA}$

Output Signal	
Analog Output	4–20 mA DC, 2-wire loop-powered
Output Signal Limits	$I_{\text{min}} = 3.9 \text{ mA}$; $I_{\text{max}} = 20.5 \text{ mA}$
Alarm Current (configurable)	Low alarm (min.): 3.6 mA High alarm (max.): 21 mA Hold mode: retains last valid value before fault Default setting: High alarm mode
Digital Communication	HART / RS-485 Modbus RTU / Profibus PA (select on order)

Electrical Connection	
Cable Entry	M20×1.5 internal thread or ½ NPT internal thread (select on order) Standard: M20×1.5 nylon cable gland included
Terminal Wire Range	0.5–2.5 mm ²

Protection	
Ingress Protection	IP67 (per IEC 60529)

■ ENVIRONMENTAL SPECIFICATIONS

Temperature	
Ambient Operating Temperature	Max. +85 °C (+185 °F) (lower limit depends on fill fluid selection)
— With LCD display and FKM seal	–20 to +65 °C (–4 to +149 °F)
Storage / Transport Temperature	Max. +85 °C (+185 °F) (lower limit depends on fill fluid selection)
Process (Medium) Temperature	–40 to +450 °C (–40 to +842 °F) (see Fill Fluid Selection Table for limits per fluid)

Mechanical & Environmental	
Relative Humidity	0–100 %
Shock Resistance	50 g, 11 ms (per IEC 60068-2-27)
Vibration Resistance	2 g, up to 500 Hz (per IEC 60068-2-6)

EMC	See EMC Supplementary Table (IEC 61000 series)
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Weight & Housing

Housing Material	Aluminium alloy with epoxy resin coating
Housing Seal Ring	Nitrile rubber (NBR)
Nameplate Material	304 stainless steel
Approx. Weight (transmitter + remote seal assembly)	DN 50 / 2": approx. 7–10 kg DN 80 / 3": approx. 8–11 kg DN 4": approx. 9–12 kg

Explosion Protection

ATEX Options	Intrinsic Safety and Flameproof options available — see Ordering Information
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EMC Supplementary Table (IEC 61000 series)

#	Test Item	IEC / US Standard	Test Condition	Performance
1	Radiated Interference (Housing)	CISPR 22	30 MHz–1000 MHz	Pass
2	Conducted Interference (DC Power Port)	CISPR 22	0.15 MHz–30 MHz	Pass
3	Electrostatic Discharge (ESD)	IEC 61000-4-2	4 kV (contact); 8 kV (air)	B
4	RF Electromagnetic Field Immunity	IEC 61000-4-3	10 V/m (80 MHz–1 GHz)	A
5	Power-Frequency Magnetic Field	IEC 61000-4-8	30 A/m	A
6	Fast Transient / Burst Immunity	IEC 61000-4-4	2 kV (5/50 ns, 5 kHz)	B
7	Surge Immunity	IEC 61000-4-5	0.5 kV (L-L); 1 kV (L-PE)	B
8	Conducted RF Immunity	IEC 61000-4-6	3 V (150 kHz–80 MHz)	A

Performance Class A: normal operation within specification during test. Class B: temporary degradation, self-recoverable; stored data and operational state unchanged.

■ PROCESS CONNECTIONS & WETTED MATERIALS

Process Connection

Connection Type	Remote seal flange (see Remote Seal Ordering Information)
Flange Standards	DIN 2501 (sealing face per DIN 2526E) / ANSI B16.5
Remote Seal Flange Rated Pressure	DIN: PN 1.6/4 MPa, PN 6.4 MPa, PN 10 MPa ANSI: Class 150, Class 300, Class 600 (150–600 psi)
Transmitter Body Pressure Limit	Vacuum to maximum rated pressure

Materials in Contact with Medium

Measuring Diaphragm Capsule	316L stainless steel
Diaphragm / Wetted Parts	316L stainless steel Hastelloy C Tantalum (selectable on order)
Process Flange Material	304 stainless steel
Housing Seal Ring	Nitrile rubber (NBR)
Nameplate	304 stainless steel

Fill Fluid Selection Table

Fill Fluid (Code)	Density @ 25°C	Operating Temperature Range
Silicone Oil (S)	960 kg/m ³ (59.9 lb/ft ³)	–30 to +220 °C (–22 to +428 °F)
High-Temp Silicone Oil (H)	980 kg/m ³ (61.2 lb/ft ³)	–10 to +350 °C (+14 to +662 °F)
Ultra-High-Temp Silicone Oil (U)	1020 kg/m ³ (63.7 lb/ft ³)	–10 to +450 °C (+14 to +842 °F)
Vegetable / Food-Grade Oil (V)	937 kg/m ³ (58.5 lb/ft ³)	0 to +250 °C (+32 to +482 °F)
Ultra-Low-Temp Fluid (L)	1020 kg/m ³ (63.7 lb/ft ³)	–100 to +100 °C (–148 to +212 °F)

※ For conditions outside the above ranges, special design is required — contact SensorsX.

Minimum Working Pressure vs. Process Temperature

Temp.	Silicone Oil S (kPa abs.)	High-Temp H (kPa abs.)	Ultra-HT U (kPa abs.)	Veg. Oil V (kPa abs.)	Ultra-LT L (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	—	—
+450°C (+842°F)	—	—	>100	—	—

※ For conditions outside the above ranges, special design is required — contact SensorsX.

■ PRESSURE RANGE & FLANGE SELECTION TABLES

Table 1 — SX Pressure Range Codes vs. Measuring Range

Range Code	Min. Span	Max. Span	Rated Pressure (Max.)
C	6 kPa	40 kPa	Flange rated pressure
D	25 kPa	250 kPa	Flange rated pressure
E	10 kPa	1 MPa	Flange rated pressure
F	30 kPa	3 MPa	Flange rated pressure
G	1 MPa	10 MPa	Flange rated pressure
H	2.1 MPa	21 MPa	Flange rated pressure
I	4 MPa	40 MPa	Flange rated pressure
L	6 kPa (Abs.)	40 kPa (Abs.)	Flange rated pressure
M	25 kPa (Abs.)	250 kPa (Abs.)	Flange rated pressure
O	30 kPa (Abs.)	3 MPa (Abs.)	Flange rated pressure

※ Min. calibrated span = larger of Table 1 and Table 2 values. ※ Max. calibrated span = smaller of transmitter body max. span and flange rated pressure.

※ Recommended turndown ratio < 10:1.

Table 2 — Remote Seal Flange vs. Minimum Span

Flange Type	Nominal Dia.	Min. Span	Max. Span	Rated Pressure	Max. Capillary Length
Flush	DN 25 / NPS 1"	160 kPa (23.2 psi)	25 MPa (3,626 psi)	Flange rated pressure	10 m (32.8 ft)
Flush	DN 50 / NPS 2"	10 kPa (1.45 psi)	10 MPa (1,450 psi)	Flange rated pressure	12 m (39.4 ft)
Flush	DN 80 / NPS 3"	6 kPa (0.87 psi)	10 MPa (1,450 psi)	Flange rated pressure	16 m (52.5 ft)
Flush	DN 100 / NPS 4"	6 kPa (0.87 psi)	3 MPa (435 psi)	Flange rated pressure	16 m (52.5 ft)
Insertion	DN 50 / NPS 2"	16 kPa (2.32 psi)	10 MPa (1,450 psi)	Flange rated pressure	10 m (32.8 ft)
Insertion	DN 80 / NPS 3"	6 kPa (0.87 psi)	10 MPa (1,450 psi)	Flange rated pressure	16 m (52.5 ft)
Insertion	DN 100 / NPS 4"	6 kPa (0.87 psi)	3 MPa (435 psi)	Flange rated pressure	16 m (52.5 ft)
Threaded Mount	OD 109 mm (4.29 in)	160 kPa (23.2 psi)	25 MPa (3,626 psi)	Flange rated pressure	10 m (32.8 ft)

■ COMMUNICATION PROTOCOLS

4-20 mA / HART

Output	4–20 mA DC, 2-wire; HART digital protocol superimposed on 4–20 mA signal
Output Signal Limits	Imin = 3.9 mA; Imax = 20.5 mA

RS-485 Modbus RTU

Protocol	RS-485 Modbus RTU (select on order)
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Profibus PA

Protocol	Profibus PA (select on order)
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■ CERTIFICATIONS & APPROVALS

Explosion Protection

ATEX (via ordering option)	Intrinsic Safety and Flameproof options available — contact SensorsX for certificate details
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General Compliance

Ingress Protection	IP67 (per IEC 60529)
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Shock & Vibration

Shock Resistance	50 g, 11 ms (per IEC 60068-2-27)
Vibration Resistance	2 g, up to 500 Hz (per IEC 60068-2-6)
EMC	Per IEC 61000-4 series (see EMC Supplementary Table)

■ MECHANICAL DIMENSIONS

※ All dimensions in mm unless otherwise stated.

Figure 1 — SX-PKZB: RS Type — Remote Seal with Vertical Capillary Outlet

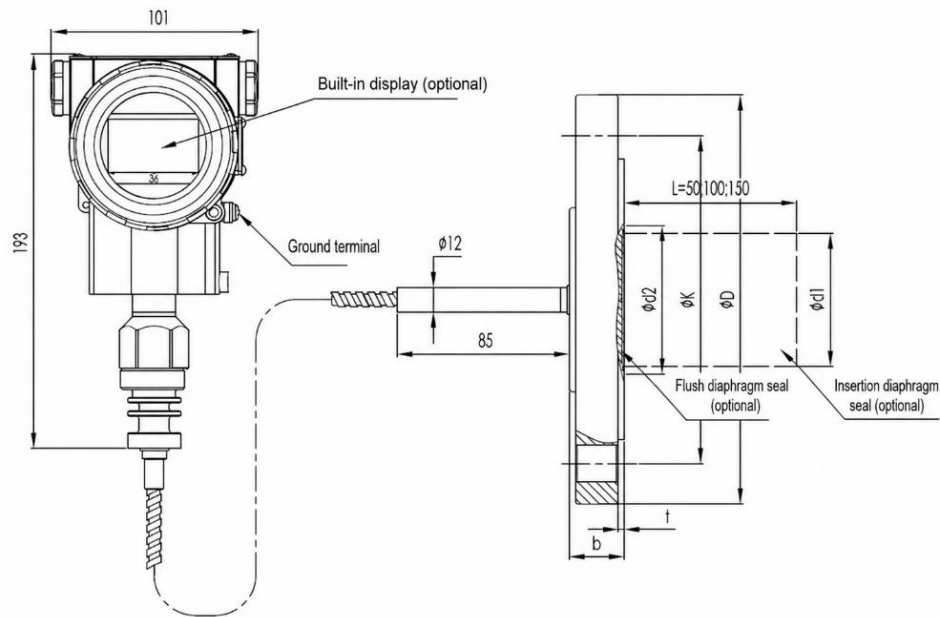


Figure 2 — SX-PKZB: RN Type — Direct Mount Without Capillary

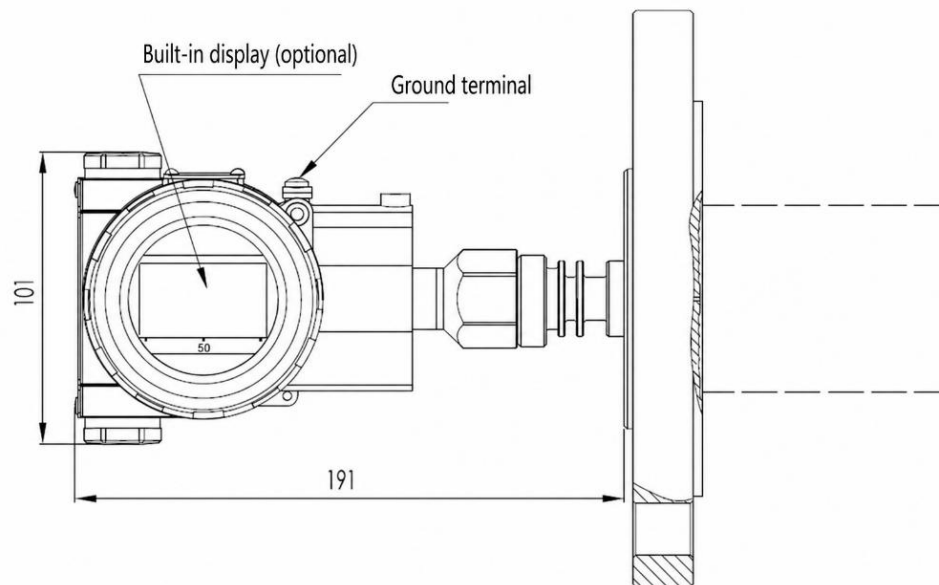


Table 3 — SX-PKZB — Flange Dimensions (ASME B16.5 / DIN 2501)

ΦD	Rated Pressure	ΦD (mm)	ΦK (mm)	Φd1 (Insertion)	Φd2 (Flush)	Φd3	t (mm)	b (mm)	Bolts	Thread
DN 50	PN 1.6/4 MPa	165	125	48.3	57	102	3+0.5	20	4	M16
	PN 6.4 MPa	180	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	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"	150 psi	152.4	120.6	48.3	57	92.1	3+0.5	17.4	4	M18
	300 psi	165.1	127.0	48.3	57	92.1	3+0.5	20.6	8	M18
	600 psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3"	150 psi	190.5	152.4	76	75	127	3+0.5	22.2	4	M16
	300 psi	209.5	168.3	76	75	127	3+0.5	27.0	8	M20

	600 psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4"	150 psi	229	191	—	89	157	3+0.5	30	8	M18
	300 psi	255	200	—	89	157	3+0.5	32	8	M18

※ All dimensions in mm. Sealing face per DIN 2526E. Flange per DIN 2501 / ANSI B16.5. Mounting bolts and nuts are user-selectable.

Figure 3 — SX-PKYB: US Type — Internal-Diaphragm Remote Seal with Capillary

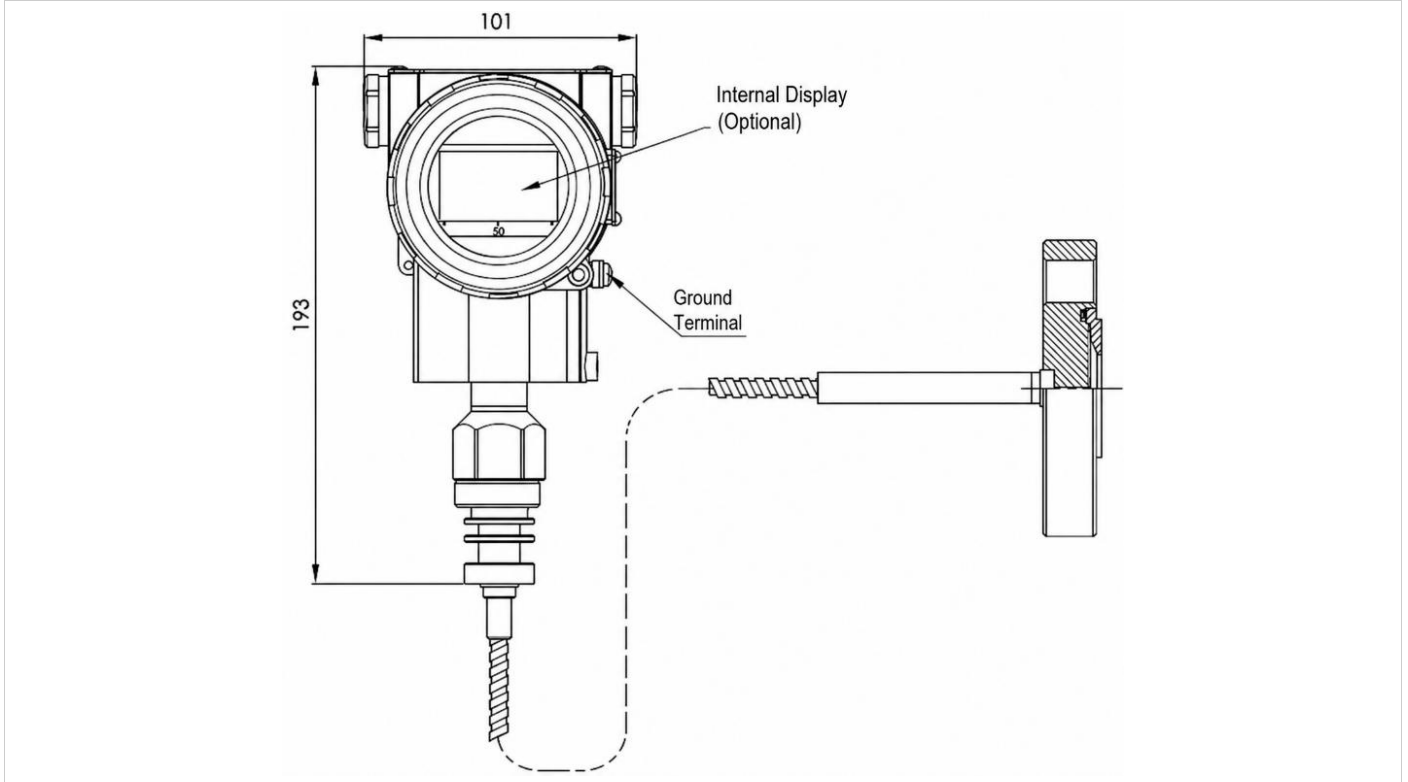


Figure 4 — SX-PKYB: UN Type — Internal-Diaphragm Remote Seal, Direct Mount

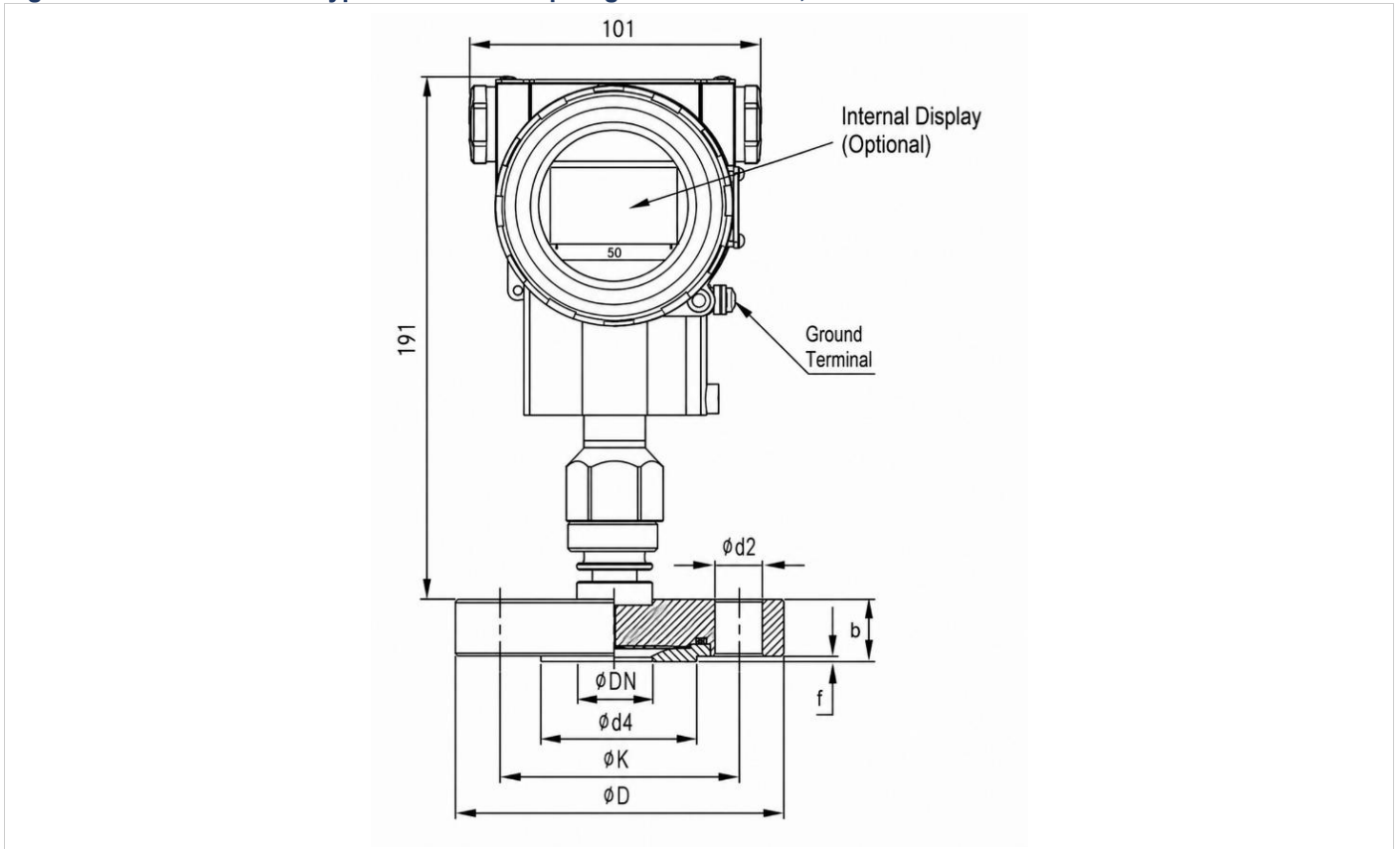


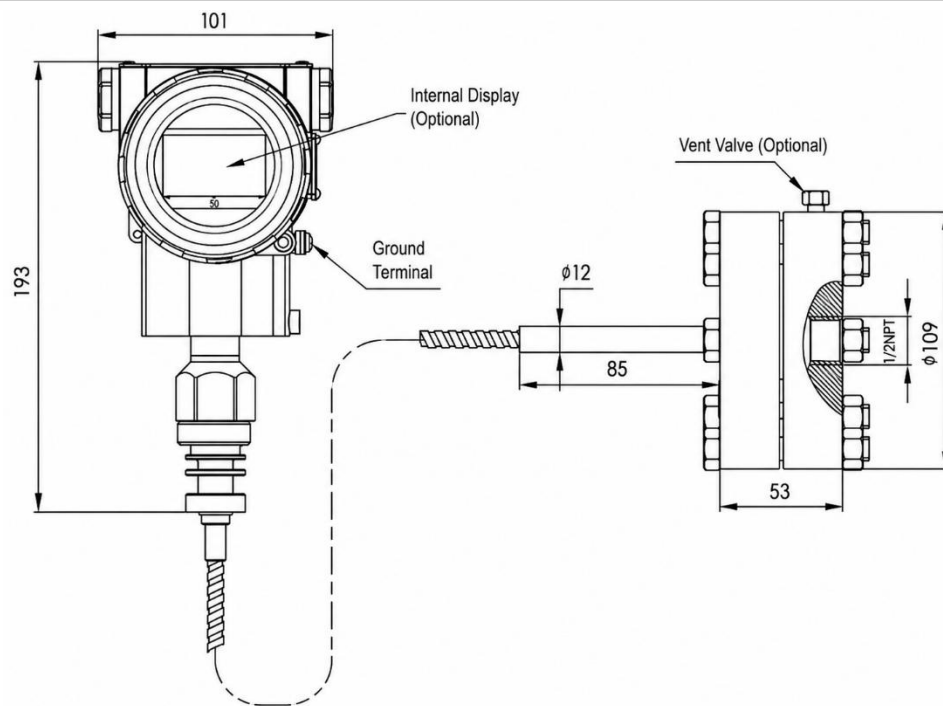
Table 4 — SX-PKYB — DIN 2501 Flange Dimensions

DN	PN	D	K	d4	b	f	H	d2	G2	Wt (kg)
25	1/4 MPa	115	85	68	22	2	—	14	—	1.5
25	6.3/10 MPa	140	100	68	24	2	52	—	4×M16	3.2
25	16 MPa	140	100	68	24	2	52	—	4×M16	3.6
25	25 MPa	150	105	68	28	2	96	—	4×M20	4.0

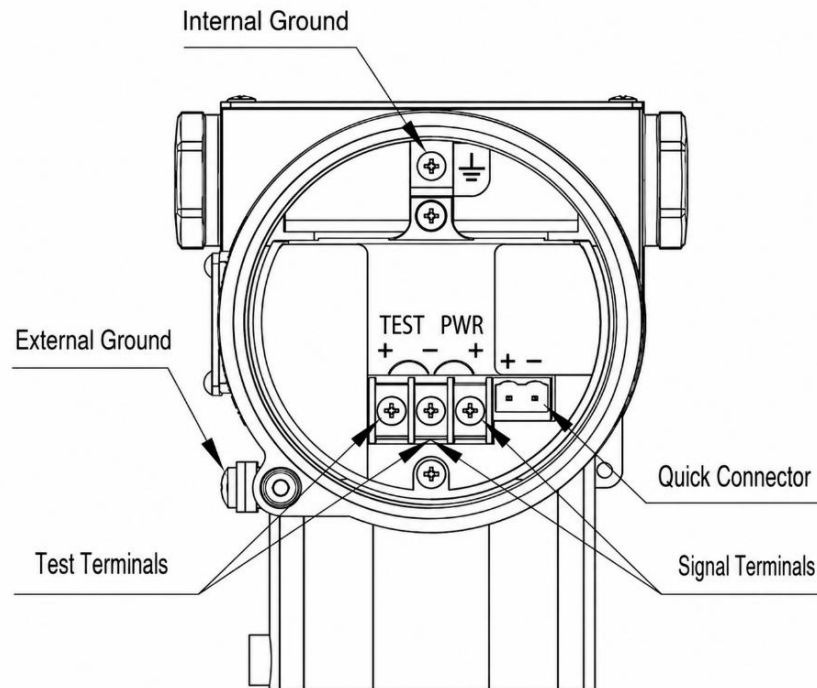
Table 5 — SX-PKYB — ANSI B16.5 Flange Dimensions

DN	psi	D	K	d2	d4	b	f	H	G2UNC	Wt (kg)
1"	150	110	79.5	16	51	22	2	—	—	1.4
1"	300	125	89	20	51	22	2	—	—	1.7
1"	600	125	89	—	51	25	7	53	4×5/8"	3.6
1"	1500	150	101.5	—	51	36	7	64	4×7/8"	4.0

Figure 5 — SX-PKXB: TS Type — Threaded-Mount Remote Seal with Capillary



■ WIRING DIAGRAM



Terminal Assignment

TEST+ / TEST-	Loop test — read mA without breaking the loop
PWR+ / Signal+	Power supply + / 4-20 mA signal +
PWR- / Signal-	Power supply - / 4-20 mA signal -
Quick Connector	External signal interface — functionally equivalent to signal terminals
⊥ Internal Ground	Internal chassis ground
⊥ External Ground	Protective earth terminal

■ ORDERING INFORMATION — TRANSMITTER BODY (SX-PTDB)

※ Always complete the transmitter body selection before selecting the remote seal unit.

Ordering example: SX-PTDB-ABCARNNNNNENH

Pressure Type	
A	Gauge pressure
B	Absolute pressure
Accuracy	
B	0.075 %
Pressure Range	
B	0–0.6 kPa to 6 kPa (gauge only)
C	0–2 kPa to 40 kPa (gauge only)
D	0–2.5 kPa to 250 kPa (gauge only)
E	0–10 kPa to 1 MPa (gauge only)
F	0–30 kPa to 3 MPa (gauge only)
G	0–0.1 MPa to 10 MPa (gauge only)
H	0–0.21 MPa to 21 MPa (gauge only)
I	0–0.4 MPa to 40 MPa (gauge only)
L	0–10 kPa to 40 kPa (absolute only)
M	0–10 kPa to 250 kPa (absolute only)

O	0–30 kPa to 3 MPa (absolute only)
Diaphragm Material and Filling Fluid	
A	316L stainless steel with Silicone oil
Pressure Connection	
R	Remote seal connection part
Safety Options	
N	Without
P	Lightning protection
Mounting Bracket	
N	Without
1	Stainless steel
2	Galvanized carbon steel
Display	
N	Without
2	LED
3	OLED
Explosion Proof	
N	Without
B	Intrinsic safety ATEX
E	Flameproof ATEX
Tag Plate	
N	Without
1	Tag inscribed on nameplate
2	Hanging stainless steel tag
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	
H	4–20 mA / HART
M	Modbus
P	Profibus PA
Additional Options	
N	without
V	Low-voltage version
Customized Optional	
D	Customized information
■ ORDERING INFORMATION — BASIC TYPE REMOTE SEAL (SX-PKZB Series)	

※ Always complete the transmitter body selection (SX-PTDB) before selecting the remote seal unit.

※ PTFE-faced diaphragm is not suitable for vacuum measurement; applicable to flush-type level flanges only.

※ When measured pressure < 50 kPa abs. (7.25 psi abs.), select vacuum service treatment option 06.

※ For optimum performance, turndown ratio < 10:1 is recommended.

Ordering example: SX-PKZB-RNH1FS01NNND

Seal Type	
RN	Direct mount, without capillary
RS	Vertical capillary outlet, with capillary
SS	Horizontal capillary outlet, with capillary
Pressure Connection & Nominal Diameter & Sealing Face & Diaphragm Material	
A	DN 50 DIN 2501 RF type DIN 2526 316L stainless steel
B	DN 50 DIN 2501 RF type DIN 2526 Hastelloy C
C	DN 50 DIN 2501 RF type DIN 2526 Tantalum
H	DN 80 DIN 2501 RF type DIN 2526 316L stainless steel
I	DN 80 DIN 2501 RF type DIN 2526 Hastelloy C
G	DN 80 DIN 2501 RF type DIN 2526 Tantalum
R	DN 100 DIN 2501 RF type DIN 2526 316L stainless steel
S	DN 100 DIN 2501 RF type DIN 2526 Hastelloy C
T	DN 100 DIN 2501 RF type DIN 2526 Tantalum
D	DN 2" ANSI B16.5 RF type ANSI B16.5 316L stainless steel
E	DN 2" ANSI B16.5 RF type ANSI B16.5 Hastelloy C
F	DN 2" ANSI B16.5 RF type ANSI B16.5 Tantalum
K	DN 3" ANSI B16.5 RF type ANSI B16.5 316L stainless steel
L	DN 3" ANSI B16.5 RF type ANSI B16.5 Hastelloy C
M	DN 3" ANSI B16.5 RF type ANSI B16.5 Tantalum
N	DN 4" ANSI B16.5 RF type ANSI B16.5 316L stainless steel
O	DN 4" ANSI B16.5 RF type ANSI B16.5 Hastelloy C
P	DN 4" ANSI B16.5 RF type ANSI B16.5 Tantalum
Rated Pressure & Pressure Class & Flange Pressure Rating & Flange Material	
1	PN 1/4 MPa (DN 50, DN 80) DIN 2501 304 stainless steel
2	PN 6.4 MPa (DN 50, DN 80) DIN 2501 304 stainless steel
3	PN 10 MPa (DN 50, DN 80) DIN 2501 304 stainless steel
6	Class 150 (DN 2", DN 3") ANSI B16.5 304 stainless steel
7	Class 300 (DN 2", DN 3") ANSI B16.5 304 stainless steel
8	Class 600 (DN 2", DN 3", excl. DN 4") ANSI B16.5 304 stainless steel
4	PN 1/1.6 MPa (DN 100) DIN 2501 304 stainless steel
5	PN 2.5/4 MPa (DN 100) DIN 2501 304 stainless steel
9	Class 150 (DN 4") ANSI B16.5 304 stainless steel
0	Class 300 (DN 4") ANSI B16.5 304 stainless steel
A	PN 1/4 MPa (DN 50, DN 80) DIN 2501 316 stainless steel
B	PN 6.4 MPa (DN 50, DN 80) DIN 2501 316 stainless steel
C	PN 10 MPa (DN 50, DN 80) DIN 2501 316 stainless steel
F	Class 150 (DN 2", DN 3") ANSI B16.5 316 stainless steel
G	Class 300 (DN 2", DN 3") ANSI B16.5 316 stainless steel
H	Class 600 (DN 2", DN 3", excl. DN 4") ANSI B16.5 316 stainless steel
D	PN 1/1.6 MPa (DN 100) DIN 2501 316 stainless steel
E	PN 2.5/4 MPa (DN 100) DIN 2501 316 stainless steel

I	Class 150 (DN 4") ANSI B16.5 316 stainless steel
J	Class 300 (DN 4") ANSI B16.5 316 stainless steel
Connection Type	
F	Flush type
H	Insertion type —316L stainless steel, depth 50 mm, body 316 stainless steel
I	Insertion type —316L stainless steel, depth 100 mm, body 316 stainless steel
G	Insertion type —316L stainless steel, depth 150 mm, body 316 stainless steel
L	Insertion type — Hastelloy C, depth 50 mm, body 316 stainless steel
M	Insertion type — Hastelloy C, depth 100 mm, body 316 stainless steel
N	Insertion type — Hastelloy C, depth 150 mm, body 316 stainless steel
Liquid Fill Type	
S	Silicone oil -40 to 220 °C
H	Silicone oil -10 to 350 °C
L	Ultra-low-temperature fill fluid -100 to 100 °C
V	Food-grade fill fluid -15 to 250 °C
F	Fluorine oil -30 to 260 °C
Capillary Length	
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
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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 sheath
Diaphragm Face Treatment	
NN	Without
22	DN 50/2" PFA coating (temp. ≤260 °C)
23	DN 80/3" PFA coating (temp. ≤260 °C)
24	DN 100/4" PFA coating (temp. ≤260 °C)
32	DN 50/2" PTFE facing (temp. ≤200 °C)
33	DN 80/3" PTFE facing (temp. ≤200 °C)
34	DN 100/4" PTFE facing (temp. ≤200 °C)
52	DN 50/2" PFA coating, insertion depth 50 mm
53	DN 80/3" PFA coating, insertion depth 50 mm
54	DN 100/4" PFA coating, insertion depth 50 mm
55	DN 50/2" PFA coating, insertion depth 100 mm
56	DN 80/3" PFA coating, insertion depth 100 mm
57	DN 100/4" PFA coating, insertion depth 100 mm
58	DN 50/2" PFA coating, insertion depth 150 mm
59	DN 80/3" PFA coating, insertion depth 150 mm
60	DN 100/4" PFA coating, insertion depth 150 mm
72	DN 50/2" Gold-plated
73	DN 80/3" Gold-plated
74	DN 100/4" Gold-plated
Additional Options	
NN	without
06	Vacuum service treatment (temp. ≥120 °C, working pressure ≤50 kPa abs.)
08	Oil-free treatment
Customized Optional	
D	Customized information
■ ORDERING INFORMATION — INTERNAL-DIAPHRAGM TYPE REMOTE SEAL (SX-PKYB Series)	
※ Always complete the transmitter body selection before selecting the remote seal unit. ※ PTFE-faced diaphragm is not suitable for vacuum measurement; applicable to flush-type level flanges only. ※ When measured pressure < 50 kPa abs. (7.25 psi abs.), select vacuum service treatment option 06. ※ Minimum span = larger of Table 1 and Table 2 values. Recommended turndown ratio < 10:1.	
Ordering example: SX-PKYB-UNU1S00NNN1D	
Seal Type	
UN	Direct mount, without capillary
US	With capillary
Pressure Connection & Nominal Diameter & Sealing Face & Diaphragm Material	
U	DN 25 DIN 2501 D type DIN 2526 316L stainless steel
V	DN 25 DIN 2501 D type DIN 2526 Hastelloy C
W	DN 25 DIN 2501 D type DIN 2526 Tantalum (temp. ≤200 °C)
X	1" ANSI B16.5 RF type ANSI B16.5 316L stainless steel
Y	1" ANSI B16.5 RF type ANSI B16.5 Hastelloy C

Z	1" ANSI B16.5 RF type ANSI B16.5 Tantalum (temp. ≤200 °C)
Rated Pressure & Flange Material	
1	PN 1/4 MPa DIN 2501 304 stainless steel
2	PN 6.3/10 MPa DIN 2501 304 stainless steel
3	PN 16 MPa DIN 2501 304 stainless steel
4	PN 25 MPa DIN 2501 304 stainless steel
6	Class 150 ANSI B16.5 304 stainless steel
7	Class 300 ANSI B16.5 304 stainless steel
8	Class 600 ANSI B16.5 304 stainless steel
9	Class 1500 ANSI B16.5 304 stainless steel
A	PN 1/4 MPa DIN 2501 316 stainless steel
B	PN 6.3/10 MPa DIN 2501 316 stainless steel
C	PN 16 MPa DIN 2501 316 stainless steel
D	PN 25 MPa DIN 2501 316 stainless steel
F	Class 150 ANSI B16.5 316 stainless steel
G	Class 300 ANSI B16.5 316 stainless steel
H	Class 600 ANSI B16.5 316 stainless steel
I	Class 1500 ANSI B16.5 316 stainless steel
Liquid Fill Type	
S	Silicone oil -40 to 220 °C
H	Silicone oil -10 to 350 °C
V	Food-grade fill fluid -15 to 250 °C
F	Fluorine oil -30 to 260 °C
Capillary Length	
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
...	...
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
...	...
Capillary Protection	
N	Without
P	PVC sheath
Diaphragm Face Treatment	

NN	Without
25	PFA coating (temp. ≤260 °C)
35	PTFE facing (temp. ≤260 °C)
Seal Ring Material	
1	PTFE
2	316 stainless steel
3	Hastelloy C
4	Tantalum
Additional Options	
NN	without
06	Vacuum service treatment (temp. ≥120 °C, working pressure ≤50 kPa abs.)
Customized Optional	
D	Customized information
■ ORDERING INFORMATION — THREADED-MOUNT TYPE REMOTE SEAL (SX-PKXB Series)	

※ Always complete the transmitter body selection before selecting the remote seal unit.

※ When measured pressure < 50 kPa abs. (7.25 psi abs.), select vacuum service treatment option 06.

Ordering example: SX-PKXB-TSUUS01NND

Seal Type	
TS	With capillary
Seal Material & Wetted Diaphragm Material	
U	304 stainless steel — 316 stainless steel
V	304 stainless steel — Hastelloy C
W	304 stainless steel — Tantalum (temp. ≤200 °C)
X	304 stainless steel — 316 stainless steel
Y	304 stainless steel — Hastelloy C
Z	304 stainless steel — Tantalum (temp. ≤200 °C)
Flushing Port	
U	Without
V	With
Liquid Fill Type	
S	Silicone oil -40 to 220 °C
H	Silicone oil -10 to 350 °C
V	Food-grade fill fluid -15 to 250 °C
F	Fluorine oil -30 to 260 °C
Capillary Length	
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
...	...

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
...	...
Capillary Protection	
N	Without
P	PVC sheath
Diaphragm Face Treatment	
N	Without
Additional Options	
NN	withou
06	Vacuum service treatment (temp. ≥ 120 °C, working pressure ≤ 50 kPa abs.)
Customized Optional	
D	Customized information

■ INSTALLATION NOTES

- The remote seal flange mates with a mating flange per ANSI B16.5 or DIN 2501. Use a flexible gasket with appropriate bolts and nuts (user-supplied; optionally available from SensorsX).
- For remote seal assemblies with capillary: if the remote seal assembly is below the transmitter body, the maximum height differential shall not exceed 5 m (16.4 ft). When process pressure is below 100 kPa abs. (14.5 psi abs.), the transmitter body must be positioned below the remote seal assembly.
- Minimum capillary bend radius: 75 mm (2.95 in). Coiling of the capillary is strictly prohibited.
- The electronic housing can rotate up to 360°. Secure it in the desired position using the locking screw.