SensorsX
SX-PSAAC Series

Digital Display Pressure Switch

Industrial Process Measurement | Pressure | Control | Automation

0.5 % FS Accuracy	**-100 kPa … 250 MPa** Pressure Range	**2× Switch + 4-20 mA** Output
IP67 Ingress Protection	**SIL / CE / RoHS** Certifications	**24 V DC ± 20 %** Power Supply

Industrial Process Measurement | Pressure | Level | Flow | Control

■ PRODUCT OVERVIEW

The SX-PSAAC Series is a digital pressure switch for industrial pressure monitoring and control. It combines pressure measurement, local display, switching outputs, and 4–20 mA analog output in one compact device. The switch is available with PNP, NPN, or relay output, and supports multi-unit display, one-touch zero reset, and a 360° rotatable housing for flexible installation.

■ KEY FEATURES

◆ 4-Digit Display	◆ 360° rotatable housing
◆ Multi-Unit Switching Supports switching between engineering units	◆ One-Touch Zero Reset

■ TYPICAL APPLICATIONS

Industries Served

● Hydraulic & Pneumatic Systems	● Pumps & Compressors	● Machinery Manufacturing
● Water Treatment	● Process Technology	● HVAC

■ PERFORMANCE SPECIFICATIONS

Measurement

Measurement Principle	Sputtered thin-film or diffused silicon
Measuring Range	-100 kPa … 0–0.5 MPa to 0–250 MPa (-14.5 psi … 0–72.5 psi to 0–36,250 psi)

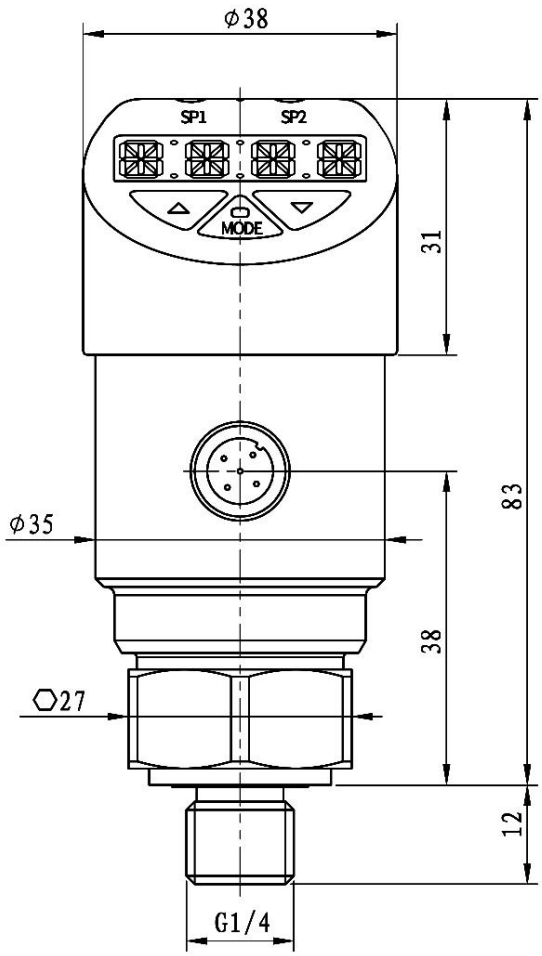
Accuracy

Accuracy	0.5 % FS
Mechanical	
Service Life	100,000,000 (1 × 10^8) load cycles
■ ELECTRICAL SPECIFICATIONS	
Power	
Supply Voltage	24 V DC ± 20 %
Output Signal	
Output Signal	2× Switch outputs (PNP / NPN / Relay) + 1× Analog (4–20 mA)
Load Capacity	≤ 1.5 A @ 24 V DC
■ ENVIRONMENTAL SPECIFICATIONS	
Temperature	
Operating Temperature	-20 °C to +80 °C (-4 °F to +176 °F)
Storage Temperature	-40 °C to +80 °C (-40 °F to +176 °F)
Mechanical & Environmental	
Ingress Protection	IP67 per IEC 60529
Vibration	20 g, 10 – 2,000 Hz per IEC 60068-2-6
Shock	50 g, 6 ms per IEC 60068-2-27
■ PROCESS CONNECTIONS & WETTED MATERIALS	
Pressure Connection	
Available Threads	M20×1.5 Male / G 1/2 Male / G 1/4 Male / 1/4"-18 NPT Male
■ CERTIFICATIONS & APPROVALS	
General Compliance	
RoHS	RoHS compliant
CE Marking	CE marked
SIL	Safety Integrity Level capable
Explosion Protection	
Explosion-proof (EX)	ATEX/IECEx

※ Certificate numbers and exact protection codes depend on specific product configuration. Contact SensorsX Technology Inc. for the current approval certificate applicable to your order.

■ MECHANICAL DIMENSIONS

Gauge Body



※ *All dimensions in mm (in). Drawing shown for G1/4 connection (C4). See Ordering Information for other connection options.*

■ ORDERING INFORMATION

Complete model number example: SX-PSAAC-EPC40C

Output / Power Supply (Field 5)	
E	4 … 20 mA
Switch Type (Field 6)	
J	Relay output
P	PNP
N	NPN
Pressure Connection (Field 7)	
C1	M20×1.5 Male (ISO 261 metric thread)
C3	G 1/2 Male (ISO 228-1 parallel thread)
C4	G 1/4 Male (ISO 228-1 parallel thread)
C5	1/4"-18 NPT Male (ASME B1.20.1)
Pressure Range (Fields 8 + 9 — two-character code)	
01	−1 … 0 bar (gauge) | −100 … 0 kPa | −14.50 … 0 psi
02	−1 … 1 bar (gauge) | −100 … 100 kPa | −14.50 … +14.50 psi
03	0 … 1 bar (gauge) | 0 … 100 kPa | 0 … 14.50 psi
04	0 … 4 bar (gauge) | 0 … 400 kPa | 0 … 58.0 psi

05	0 … 10 bar (gauge) | 0 … 1 MPa | 0 … 145 psi
06	0 … 16 bar (gauge) | 0 … 1.6 MPa | 0 … 232 psi
07	0 … 25 bar (gauge) | 0 … 2.5 MPa | 0 … 363 psi
08	0 … 40 bar (gauge) | 0 … 4 MPa | 0 … 580 psi
09	0 … 60 bar (gauge) | 0 … 6 MPa | 0 … 870 psi
0A	0 … 100 bar (gauge) | 0 … 10 MPa | 0 … 1,450 psi
0B	0 … 160 bar (gauge) | 0 … 16 MPa | 0 … 2,321 psi
0C	0 … 250 bar (gauge) | 0 … 25 MPa | 0 … 3,626 psi
0D	0 … 400 bar (gauge) | 0 … 40 MPa | 0 … 5,802 psi
0E	0 … 600 bar (gauge) | 0 … 60 MPa | 0 … 8,702 psi
0F	0 … 700 bar (gauge) | 0 … 70 MPa | 0 … 10,153 psi
0G	0 … 1,000 bar (gauge) | 0 … 100 MPa | 0 … 14,504 psi
Customized (Custom field)	
D	Customized — specify requirements in order remarks