

Side Cable Outlet PK86X-PS UHP Switch Pressure Transmitter

Application Scenarios



Semiconductor



High/Ultrahigh-Purity
Special Gases



Gas Distribution System



Product Features

Sealing

Semi-grade
W-Seal

Testing

100% Helium
Leak Testing

Packaging

Vacuum Packag-
ing in Class 100
Cleanroom

Treatment

Process connec-
tion EP level:
 $Ra \leq 0.15 \mu m$

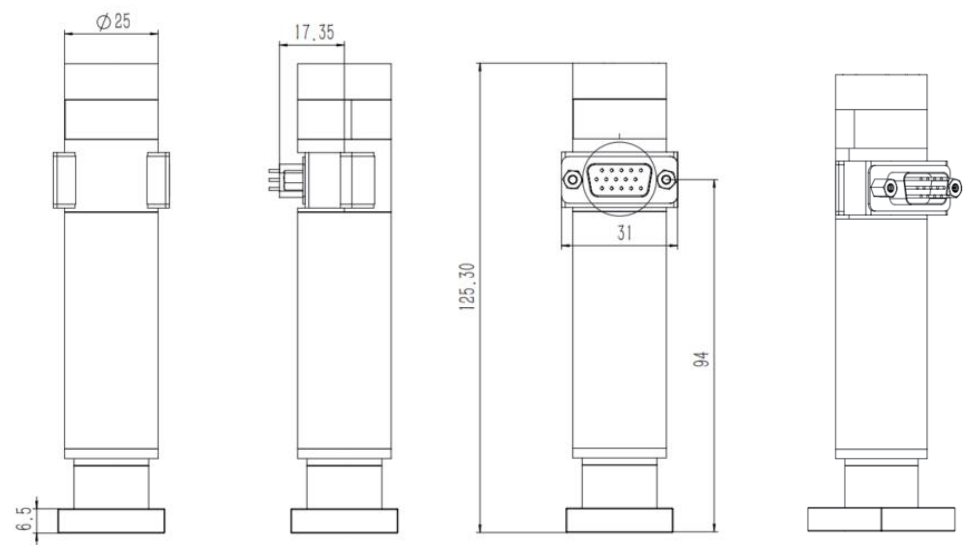
Product Description

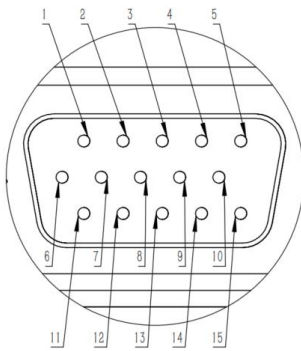
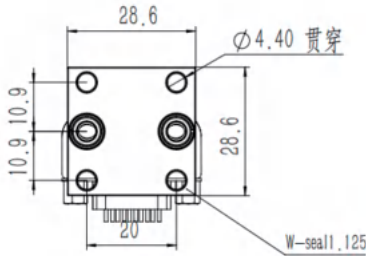
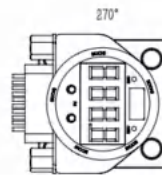
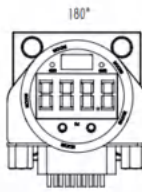
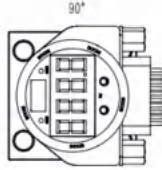
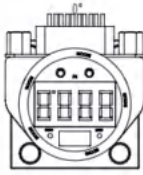
- This product features an integrated all-metal welded construction and can be configured with semiconductor-grade pressure fittings. The wetted surfaces undergo 100% specialized EP treatment and are degreased and oil-free cleaned, fully meeting the requirements of semiconductor, flat panel display, high-purity/ultrapure environments, and specialty gas pipelines.
- The pressure range covers 0–100 psiA, with customizable ranges available to meet specific customer requirements.
- Each unit undergoes 100% leak testing to comply with industry sealing standards, preventing the risk of leakage of flammable, explosive, corrosive, or toxic media.
- Manufacturing is carried out entirely in a Class 100 cleanroom, with 100% cleaning and vacuum packaging, ensuring compliance with SEMI standards.

Technical Specifications

Application Scenarios	For Semiconductor Process Gases
Measurement Range	0.....100psiA
Accuracy	±0.75%FS
Over Pressure	The rated pressure × 3
Medium Temperature	-40.....125°C
Ambient Temperature	-20.....85°C
Temp Coefficient(-20~85°C)	Zero: <0.1%FS/10K; Full Scale: <0.1%FS/10K
Supply Voltage	DC24V (10...30 V DC)
Output Signal	0-5V
Switching Point	NPN * 2
Display	LED Display, Display Rotatable up to 270°
Cable Outlet	Side Cable Outlet D-SUB 15PIN(Male)
Connection Material	316L VIM/VAR
Diaphragm Material	Hastelloy (C-22)
Stability Performance	Typical: 0.25%FS/Year
Leak Rate	≤1X10 ⁻¹⁰ Pa.m ³ /s
Packaging	Double-layer vacuum packaging, compliant with SEMI E49.6

Specifications and Dimensions (Unit: mm)





Pin Assignment		
PIN No.	Functions	Remarks
1	NC	
2	Analog Output	Signal
3	NC	
4	NC	
5	Power Supply	0V
6	NC	
7	Power Supply	DC24V
8	NC	
9	CNT1 OUT	Receive
10	CNT1 COM	Transmit
11	NC	
12	Analog COMM	Communication
13	NC	
14	CNT1 OUT	Receive
15	CNT1 COM	Transmit

Range

PS 100psi

Type

A Absolute

Direction

TS Parallel to Cable Outlet

Output

005 0-5V

Switch Signal

N2 NPN*2
(DB15
Side cable outlet)

Process

W2 1.125" W-Seal

10	20	30	40	50	60
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PK86X-PS UHP Switch Pressure Transmitter

Selection Example:

Requirement: DB15 connector, 0-5 V output, 0-100 psi absolute pressure, 1.125" W-Seal

Selected Model: PK86X-PSATS005N2W2