

Side Cable Outlet

PK86X-PS UHP Switch Pressure Transmitter

Application Scenarios



Semiconductor

High/Ultrahigh-Purity
Special Gases

Gas Distribution System



Product Features

Sealing	Testing	Packaging	Treatment
Semi-grade W-Seal	100% Helium Leak Testing	Vacuum Packaging in Class 100 Cleanroom	Process connection EP level: $Ra \leq 0.15 \mu\text{m}$

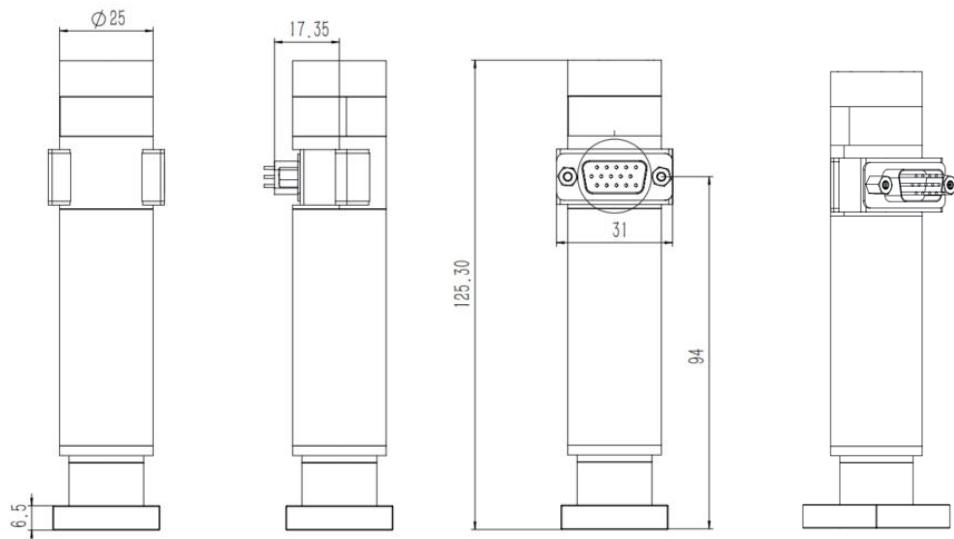
Product Description

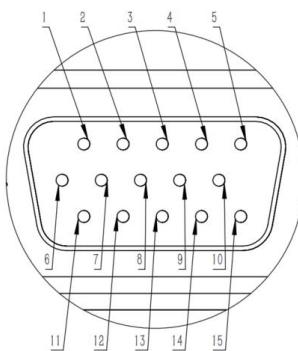
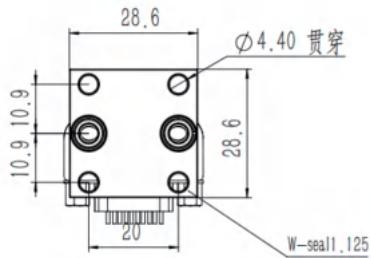
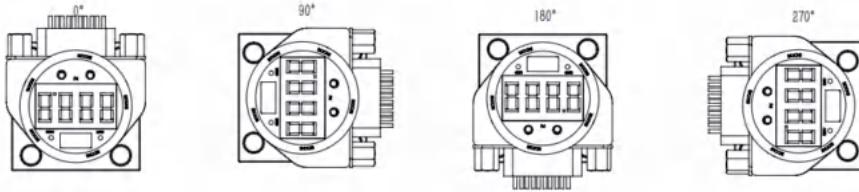
- This product features an integrated all-metal welded construction and can be configured with semiconductor-grade pressure fittings. The wetted surfaces undergo 100% specialized EP treatment and are degreased and oil-free cleaned, fully meeting the requirements of semiconductor, flat panel display, 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	$\leq 1 \times 10^{-10}$ 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	Type	Direction	Output	Switch Signal	Process
PS 100psi	A Absolute	TS Parallel to Cable Outlet	005 0-5V	N2 NPN*2 (DB15 Side cable outlet)	W2 1.125" W-Seal
10	20	30	40	50	60

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Selection Example:

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

Selected Model: PK86X-PSATS005N2W2