

# AP23 Anti-corrosion Pressure Transmitter

## Description:

AP23 series anti-corrosion pressure transmitter adopts high-performance corrosion-resistant core, and uses anti-corrosion materials such as polytetrafluoroethylene and anti-corrosion alloy with strong anti-corrosion performance. It can measure various corrosive media and is suitable for various fields requiring anti-corrosion Precise measurement and control of sexual fluid and gas pressure.

## Features:

- ⊙ A variety of corrosion-resistant materials are available
- ⊙ Resistant to a variety of corrosive media and wear-resistant
- ⊙ High comprehensive precision, suitable for a wide range of media
- ⊙ Good long-term stability
- ⊙ The shell material can be selected according to the measuring medium

## Applications:

- ⊙ Medical Technology
- ⊙ Environmental detection technology
- ⊙ Petroleum, chemical industry
- ⊙ Electroplating technology
- ⊙ Pharmaceutical industry



## Performance Parameter

Measuring Range	-100KPa~0~1kpa... 260Mpa (可选)	
Overload Capability	1.5~2 times full-scale pressure (with damping can resist 300% instantaneous impact)	
Burst Pressure	4xFS(≤5MPa)	
Durability	>1x10 <sup>6</sup> cycle (P:10~90%FS)	
Pressure Type	Gauge / Absolute	
Measuring medium	Gas or liquid compatible with ceramic, 316 stainless steel, titanium diaphragm, tantalum diaphragm, etc.	
Response time	≤5ms	
Resolution	>10-5 (Usually limited acquisition display device, theoretically infinitely small)	
Accuracy (linear,hysteresis, repeatability)	Typical: ±0.5%FS	
Long-term stability	Typical: ±0.1%FS/year	Maximum: ±0.2%FS/year
Zero temperature drift	Typical: ±0.02%FS/°C	Maximum: ±0.05%FS/°C
Sensitivity temperature drift	Typical: ±0.02%FS/°C	Maximum: ±0.05%FS/°C

## Environmental Conditions

Medium Temperature	-20 ~ 80°C
Ambient Temperature	-20 ~ 85°C
Compensation Temperature	-10 ~ 70°C (默认) 特殊可定制
Insulation resistance	> 100 MΩ, 100VDC
Shell Protection	Plug type(IP65); Cable type(IP67) Compliance IEC 60529 standard
Certification	CE

## Electrical Specifications

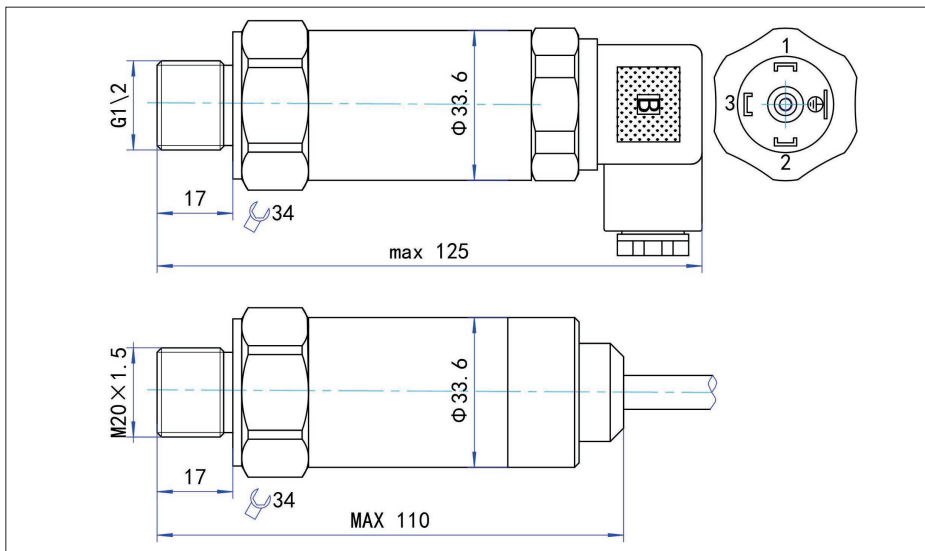
Code	Standard signal (with short circuit protection)	Supply voltage with polarity protection	Power supply -Current	Load(R)	Output Impedence
A1	4~20mA	DC 9~30V	Max.25mA	R≤(U-9)/0.02Ω	
V1	1~5V DC	DC 9~30V	8mA	R≥50kΩ	<2kΩ
V2	0~5 V DC	DC 9~30V	8mA	R≥50kΩ	<2kΩ
V3	0.5~4.5V DC	DC 9~30V	8mA	R≥50kΩ	<2kΩ
V4	0.5~4.5V DC	DC 5±0.25V	8mA	R≥50kΩ	<2kΩ

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## Material

Interface and housing	Stainless steel 304, 316, titanium alloy, Hastelloy, can be customized
O-ring	Viton, PTFE, Nitrile, can be customized
Sensor Diaphragm	Ceramic / 316 stainless steel / titanium / tantalum diaphragm

## Size and Outline



## Electrical Connections

Description	PG7 Grand lock head outlet 1m Shielded cable	A type HSM plug	M12x1 Aviation plug Straight out or Corner out 1m unshielded cable
Code	W1	W2	W3 / W4
Diagram			
Protection Grade	IP67	IP65	IP65
Ambient Temperature	-40 ~ 85°C	-40 ~ 85°C	-40 ~ 85°C
Current output wiring definition	RED:V+ / BLUE:OUT+	1#:V+ / 2#:OUT+	BROWN (1#) :V+ / BLUE (3#) :OUT+
Voltage output wiring definition	RED:V+ / BLUE:OUT+ YELLOW:GND	1#:V+ / 2#:OUT+ 3#:GND	BROWN (1#) :V+ / BLUE (3#) :OUT+ BLACK (4#) :GND
Current output wiring diagram			
Voltage output wiring diagram			

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## Ordering Information

AP23	G	016B	A1	F2	W2	S
Model	Pressure type	Pressure Range	Output	Thread size	Electrical connections	Wetted medium
AP23	G=Gauge A=Absolute	001B=1bar 002B=2bar 003B=3bar 004B=4bar 005B=5bar 006B=6bar 007B=7bar 010B=10bar 020B=20bar 050B=50bar .....	A1=4~20mA V1=1~5V V2=0~5V V3=0.5~4.5V (8~30VDC supply) V4=0.5~4.5V (5VDCsupply)	F2= G ¼ male F3=¼NPT male F4=M12x1.5 F0= Customized	W1= Straight Out 1m cable W2=A type HSM plug W3=M12 corner out 1m W4=M12 Straight Out 1m W0= Customized	PP PV PVDF PTFE 316L (optional)

Model example: **AP23G010BV3F2W1S**

Range: 0-10barGauge; Output: 0.5~4.5V; Accuracy: ±0.5%FS typical; Supply: 5V DC

Pressure Connection: G ¼ Male; Electrical Connection: 1m shielded cable; with instantaneous buffer

### Remarks:

It can be customized if the order quantity exceeds a certain amount. Please contact the sales engineers for details

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