

## MB300 Universal Pressure Transmitter

### Features

- Stainless steel construction; optional pressure port; Optional Output signal; Various outline structures, accepting custom design;
- Reversed-polarity, transient current & voltage protection, which Conform to EMI standard;
- High precision, anti-vibration;
- Protection IP67;
- Strong anti-interference ability, perfect long-term stability



### Introduction

MB300 Universal Pressure Transmitter adopts piezoresistive pressure sensor with isolated stainless steel diaphragm as sensing element inside. The inlaying circuits transform millivolt signal into standard voltage, current and frequency signal. It can connect to computers and controlling instruments directly, and be chronically used in severe environment. MB300 provides a variety of pressure ranges and electrical interfaces, which has high anti-vibration and impact resistance.

Widely used in process control field of petroleum, chemical industry, pumps and compressors, general machinery, hydraulic/pneumatic systems, power, boiler, natural gas etc.

### Specification

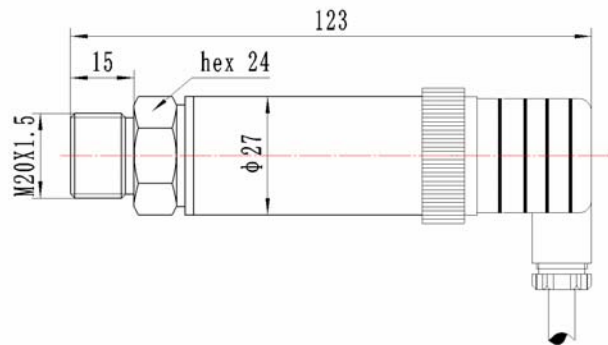
Pressure Type	Gauge pressure, Absolute pressure, Sealed gauge							
Measuring Medium	Liquid ,gas,vapor ,which are compatible with SUS304							
Pressure range(MPa)	-0.1	1	1.6	6	10	20	40	60 or customized
Pressure range (bar)	-1	10	16	60	100	200	400	600 or customized
Pressure range (psi)	-14.5	300	700	900	2k	4k	8k	or customized
Overload range	200%FS							
Bursting pressure	300%FS							
Power Supply	(9~36) VDC,		(9~36) VDC,			(9~36) VDC		
Output signal	(0~5)V,		(1~5)V,			(4~20)mA		
Transmitting	2-wires,		3-wires,			3-wires,		
Load	$\leq(U-15)/0.02\Omega$ ,		> 100k,			> 100k		
Vibration	10~500Hz 25g							
Shock resistance	50g 11ms							
Accuracy	$\pm 0.5\%FS(\text{typ.}) @25^{\circ}C$							
Zero temp.drift	$\pm 0.03\%FS/^{\circ}C$							
FS temp.drift	$\pm 0.03\%FS/^{\circ}C$							
Long-term stability	$\pm 0.2\%FS/Y$							



Insulation resistance	250 MΩ/250V, 100MΩ/250V
Medium temp.	(-40~125)°C
Ambient temp.	(-40~85)°C
Storage temp.	(-40~125)°C
Compensated temp.	(-10 ~ 80)°C
Housing	SUS304
Diaphragm	SS316L
O-ring	Viton
Protection	IP67

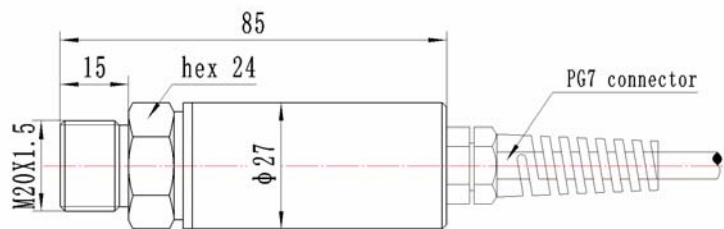
Outline Construction: (Unit :mm)

1.Hirschman



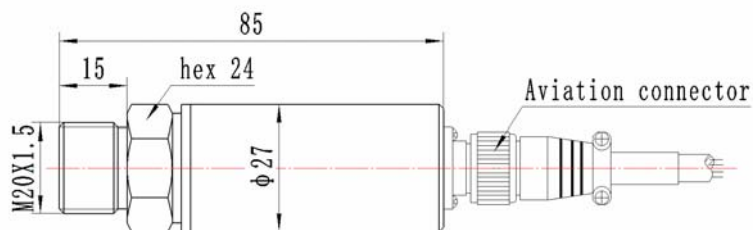
Widely used in air compressor ,Pump,medic etc.

2.PG7



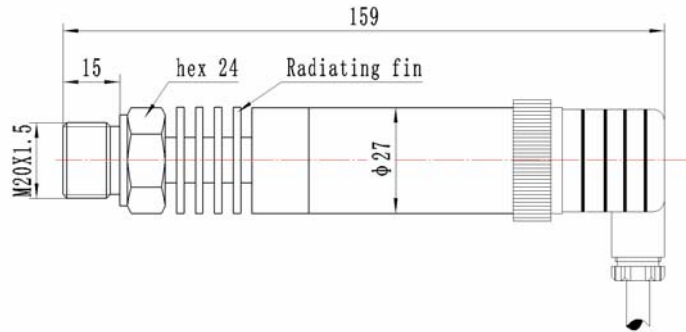
Waterproof ,IP65.Widely used in hydraulic, presswind ,power etc.

3. Aviation connector



Widely used in aeronautical equipment,etc.

4.Cable directly



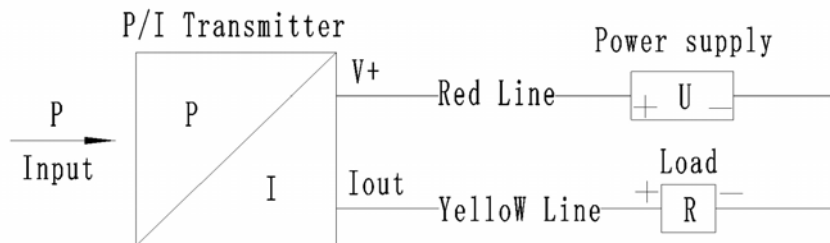
Waterproof,IP68.Widely used in Shipping, Oil and Chemical industry.

Electrical Connection

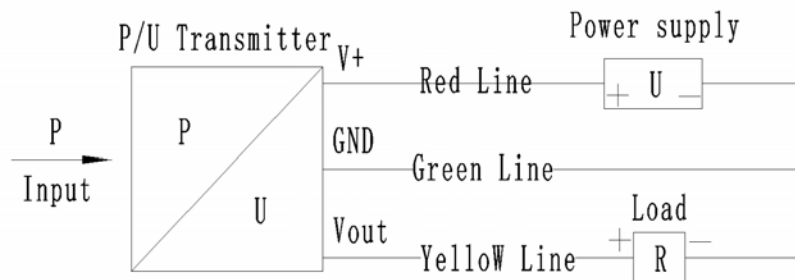
- Cable connection wiring

Color	2-wires	3-wires
Red	+V	+V
Yellow	0V/+OUT	GND
Green	Null	+OUT

- 2-wires,4~20mA output



- 3-wires,0~5V,1~5V output



**Order Guide**

MB300	Universal Pressure Transmitter							
	(-0.1~60) MPa	Pressure range (Unit:Psi,Bar,Kpa,Mpa···)						
		Code	Pressure reference					
		A	Absolute pressure					
		G	Gauge pressure					
		S	Sealed gauge pressure					
		Code	Excitation					
		V1	24V					
		V2	12V					
		V3	others (please specify)					
		Code	Output signal					
		S1	4~20mA					
		S2	1~5V					
		S3	0~5V					
		S4	others (please specify)					
		Code	Pressure connection					
		C1	M20×1.5					
		C2	G1/2"					
		C3	others (please specify)					
		Code	Electrical connection					
		E1	Hirschman					
		E2	Cable directly					
		E3	Air plug					
		E4	(others please specify)					
		Code	Accuracy					
		A1	0.1%FS					
		A2	0.25%FS					
		A3	0.5%FS(typ.)					
		A5	1%FS					
			Other					
MB300	0~1MPa	G	V1	S1	C1	E1	A3	

**Order Note**

1. The material of measuring medium should be compatible with the stainless steel.If it is corrosive,pls specify its material in detail.
2. Please note in the order if you need zero pressure as negative pressure.
3. Please note it in detail if your application environment is critical or the elements which may influence the pressure transmitter normal operation existed.
4. The structure and demension of the pressure transmitter can be used for most of the application occasions,if your application space is too small or having other requirements to the transmitters,please specify it in detail.

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5. All specifications are subject to change. Contact Gaohua for specifications and engineering drawings that are critical to your application. Drawings contained in this document are for reference only.