

MB510 Differential Pressure Transmitter

Features

- 316L stainless steel construction, compact size, easy installation;
- Laser welding, full-sealed construction; Protection IP67;
- High precision, wider temperature compensate range:
- Anti-impact, anti-vibration, anti-overloading;
- Temperature compensation and aging, stable performance;
- Various outline structures, accepting custom design

Introduction

MB510 Differential Pressure Transmitter adopts piezoresistive OEM differential pressure sensor as sensing element inside. The measured pressure worked on two diaphragms of the sensing elements, through amplifier circuit, the differential pressure can be transformed into electrical signal. MB510 has various output for choice. (millivolt, standard voltage, current, frequency etc.).

Stainless steel housing decides its strong anti-corrosion ability. Two M20*1.5 (or customized connector dimention) pressure connectors can be installed on the measuring tube directly(or get a connection through a connecting tube).

Widely used in differential pressure measurement of petroleum, chemi-industry, power station, hydrology, navigation, aviation, HVAC etc.







Specification

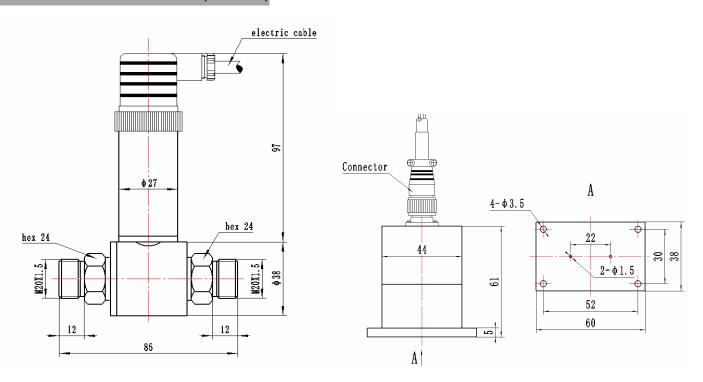
Pressure Type	Differential Pressure					
Medium	Liquid ,gas, vapor ,which is compatible with SUS304					
Pressure range(MPa)	0~0.7 or customized					
Pressure range (bar)	0~700 or customized					
Pressure range (psi)	0~100 or customized					
Overload range	200%FS					
Bursting pressure	300%FS					
Power Supply	(9∼36) VDC					



Differential Pressure Transmitter

Output signal	(0∼5)V, (1∼5)V, (4∼20)mA			
Vibration	10∼500Hz 25g			
Shock resistance	50g 11ms			
Accuracy	±0.5%FS(typ.) @25°C			
Zero temp.drift	±0.03%FS/°C			
FS temp.drift	±0.03%FS/°C			
Long-term stability	±0.2%FS/Y			
Insulation resistance	250 ΜΩ/250V, 100ΜΩ/250V			
Medium temp.	(-40~125)°C			
Operation temp.	(-40~85)°C			
Storage temp.	(-40~125)°C			
Compensated temp.	(-10 ~ 80)°C			
Housing	SUS304			
Diaphragm	nragm SS316L			
O-ring	Viton			
Protection	IP67			
Compensated temp. Housing Diaphragm O-ring	(-10 ~ 80)°C SUS304 SS316L Viton			

Outline Construction: (Unit:mm)



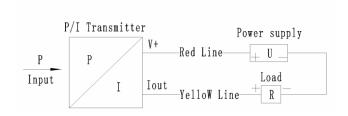


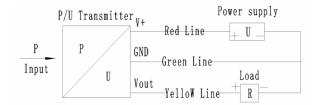
Electrical Connection

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

MB510	Differential	ifferential Pressure Transmitter					
	0~60MPa	Pressure range (Unit:Mpa,kpa,psi,bar)					
		Code	Excitation				
		V1	24V	24V			
		V2	12V				
		V3	others (others (please specify)			
			Code				
			S1	61 4~20mA			
			S2	62 1~5V			
			S3	others (please specify)			
				Code	Code Pressure connection		
				C1	$M20 \times 1.5$		
				C2	G1/2"		
				C3	others (please specify)		
					Code Electrical connection		
					E1 Hirschman connection		
					E2 PG7 Connection		onnection
					E3 Aviation connection		n connection
					E4	Cable c	
					E5	E5 Others(Pls specify)	
						Code	Accuracy
						A1	0.1%FS
						A2	0.25%FS
						A3	0.5%FS(typ.)
						A4	1%FS

 ${\tt ADD:\ NO.2\ Shenma\ Road, Maqun\ Science\ Park, Nanjing, Jiangsu\ Province, China.}$

TEL: (0086) 025-85300032, FAX: (0086) 025-85329493

 $E-mail: angela.zou@govagroup.com(\ M.T.\ 18951021368); senniehs@govagroup.com(M.T.\ 18752007602)$



Differential Pressure Transmitter

							Code	Specific need
							Е	Intrinsically safe Exia II CT6
							V	Anti-vibration
							1	Anti-impact
							С	Cable length 2m
							0	Other requirements
MB510	12MPa	V1	S1	C1	E1	A1	V	

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 pay attention that the measured pressure should be in the rating pressure range, too small or too large will influence the measuring result or even damage the transmitter.
- 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.
- 5. We suggest to install tri-value between the measured point and the transmitter to protect the media adding on transmitter's positive and negative cavities slowly.
- 6. Please to make two pressure ports horizontally to reduce installation direction effect.
- 7. 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.