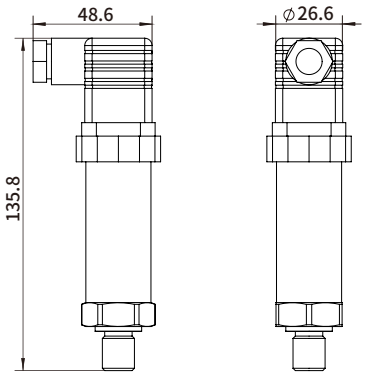
MBS4500R/MBS4500A HIGH PRECISION PRESSURE TRANSMITTER

The MBS4500 high-precision pressure transmitter adopts imported diffused silicon sensor as pressure-sensitive element, with wide temperature range compensation, excellent temperature seat performance and multi-point linear correction, to ensure the precision and accuracy of the product. It adopts instrument-grade amplifier and has strong anti-interference performance. The shell of this product is made of 304 stainless steel, with better corrosion resistance, suitable for various harsh working conditions. This series of products are used in various application with high accuracy requirements, good long-term stability, and strong anti-interference performance.

UNIT:mm



Technical Characteristics

- Basic accuracy 0.1%FS, and no other temperature errors will be generated within 0~60℃
- 0.05%FS with RS485 output
- 4-20mA or RS485 output is optional
- With zero calibration function, quick on-site calibration, simplifies the installation & debugging process

Applications

- Laboratory
- Pneumatic and hydraulic systems
- Equipment manufacturing and engineering machinery
- Measurement and experimental platform

Selection Guide

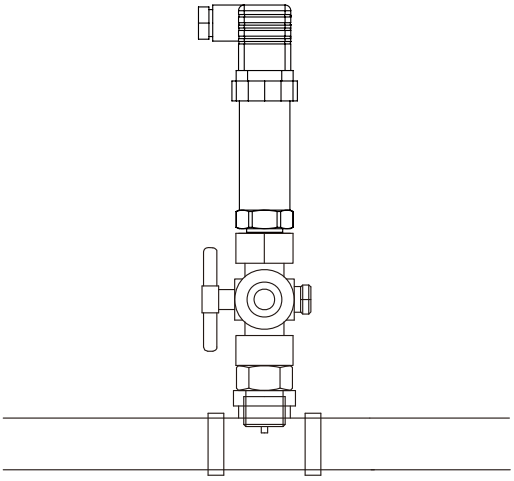
MBS4500R	—100K	— 3	— A	— M20	— P3	— B3	— T1	— K1	—XXXXXX
Model Relative: MBS4500R Absolute: MBS4500A	Range 100kPa *Refer to the table below	Accuracy 3 (±0.1%FS) 5 (±0.05%FS)	Output signal A (4-20mA) R (RS485)	Connection M20 (M20*1.5) *Refer to the table below	Power supply P3 (12~28VDC)	Outlet line B1(DIN) B2(Straight out) B3(Aviation plug)	Medium temperature T1 (-10~60°C)	Special specifications *Refer to the table below	ID Code

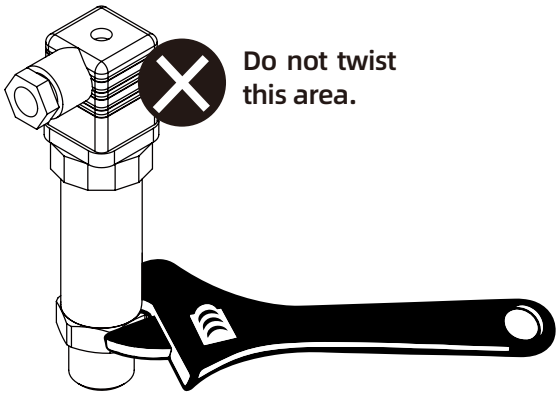
	Unit	GB (MPa/kPa)	ASME (PSI)	EN (bar)	Notes
Range	Ultra-high	0-100MPa	0-15000	0-1000	1) The above ranges are standard ones. For customized ranges, please consult the technical engineers. 2) Special specifications: K0 (None) K1(Oxygen measurement) K2(Hydrogen measurement) K3(Zinc/copper restricted) K4 [Acid measurement (non-hydrofluoric acid)] K5(With heat sink) K6(Fluorine-coated) K9(Custom specification)
	High	0-10/16/25/40/60/70MPa	0-1500/3000/5000/10000	0-100/250/400/700	
	Medium	0-0.1/0.16/0.25 /0.4/0.6/1/1.6/2.5/4/6 MPa	0-30/50/100/300/500/1000	0-1/2.5/4/6/10/25/40/60	
	Low	0-10/25/40/60/kPa	0-3/5/15	0-0.1/0.25/0.4/0.6	
	Micro	/	/	/	
	Absolute pressure	100/160/250/400/600kPa 0-1/1.6/2.5MPa	0-15/30/100/500	1/2.5/4/6/10/25	
	Negative pressure	(-100-0)kPa	(-15-0)	(-1-0)	
	Compound pressure	(-10~10)/(-25~25)/(-40~40)/(-60~60)/(-100-100)kPa (-100-250)/(-100-400)/(-100-600)kPa (-0.1-1)/(-0.1-1.6)/(-0.1-2.5)MPa	(-1-1)/(-3-3) (-5-5)/(-15-15) (-15-100)/(-15-300)	(-0.1~0.1)/(-0.25~0.25)/(-0.4~0.4) (-0.6~0.6)/(-1-1)/(-1-2.5)/(-1-4)/(-1-6) (-1-10)/(-1-25)	
	Differential pressure	/	/	/	
Connection	Standard	M20(M20*1.5)/M14(M14*1.5)/G12(G1/2)/G14(G1/4)/N12(NPT1/2)/N14(NPT1/4)/P12(PT1/2)/P14(PT1/4)Thread			

Technical Parameters

Range	See the table above for range selection
Accuracy	0.1%FS, 0.05%FS(with RS485 output)
Power supply	DC 9~30V (4-20mA) / DC 12~30V
Output	4-20mA / RS485
Process connection	See the following table for connection selection
Wiring Method	Husman connector / M12 * 1 aviation plug / straight out
Compensation temperature	(0~60)℃
Electrical protection	Anti-reverse connection protection, short circuit protection, overvoltage protection
IP rate	IP65
Operating temperature	(-10~60)℃

Installation Method





*Please use a wrench to fully tighten the screw thread and ensure air tightness.