

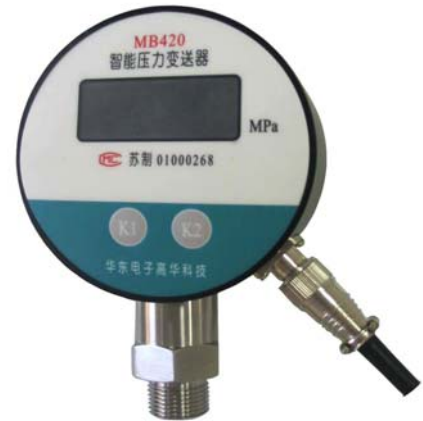
MB420 Industrial Pressure Transmitter

Features

- 4 digits LED digital indicator displaying pressure value
- F.S software adjustable
- RS485,RS232,HART,CAN protocol
- Accepting custom design

Application

- Engineering machinery、 Car
- Oil and Chemical industry
- Automatic checkout system
- Shipping、 Railway transportation
- Wind power generation
- Supply heating、 Medicine
- Hydraulic pressure、 Air compressor and Pump



Introduction

MB420 intelligent pressure transmitter adopts all-weld OEM oil-filled pressure sensor and ADI professional chip, combined with microprocessor technology, it has the functions, such as 4 digits LED digital indicator to display pressure value, data processing, zero/F.S software adjustable, permanently saved the setting parameters, 4~20mA output signal etc. Widely used in process control field of petroleum, chemical industry, general machinery, metallurgy, etc.

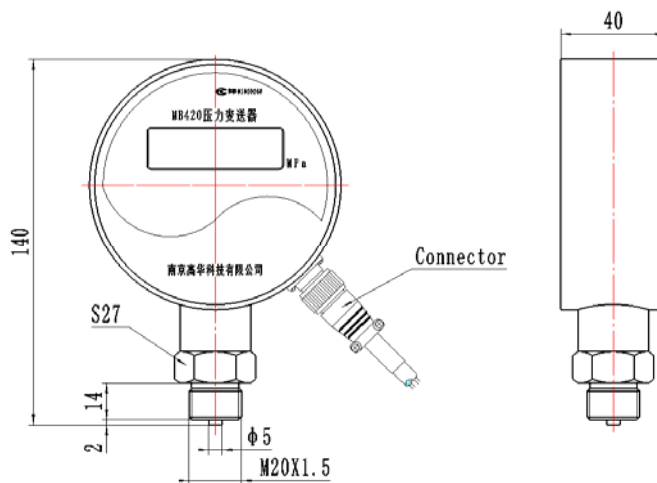
Specification

Pressure Type	Gauge pressure, absolute pressure
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	(12~36) VDC
Output signal	4~20mA, 1~10V, RS485, RS232, HART,CAN protocol etc.
Transmitting	2-wires, 3-wires
Load	$\leq (U-15)/0.02 \Omega$, $> 100k$
Vibration	10~500Hz 25g
Shock resistance	50g 11ms

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Accuracy	±0.5%FS(typ.) @25℃
Zero temp.drift	±0.03%FS/℃
FS temp.drift	±0.03%FS/℃
Long-term stability	±0.2%FS/Y
Insulation resistance	250 MΩ/250V
Medium temp.	(-40~125)℃
Ambient temp.	(-20~85)℃
Storage temp.	(-40~125)℃
Compensated temp.	0~80℃
Housing	SUS304
Diaphragm	SS316L
O-ring	Viton
Protection	IP67

Outline Structure (Unit:mm)



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

MB420	Industrial Pressure Transmitter									
	0~1MPa	Pressure range,Please write the range directly (Unit:Mpa,kpa,psi,bar...)								
		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	Electrical connection							
		E1	Aviation connector							
		E2	Cable directly							
		E3	others(please specify)							
		Code	Pressure connection							
		C1	M20×1.5							
		C2	G1/2"							
		C3	others (please specify)							
		Code	Accuracy							
		A1	0.1%FS							
		A2	0.25%FS							
		A3	0.5%FS(typ.)							
		A4	1%FS							
			S	Others,Please note when ordering						
MB420	1MPa	G	V1	S1	E1	C1	A1	S		

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.
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.