

QYB100

General Pressure Transmitter

Overview

The QYB100 series use diffused silicon pressure sensors as sensitive components and adopts fully digital circuits. The overall performance is stable and reliable, and can carry out long-distance signal transmission. All stainless steel structure, easy to install. It has extremely high anti-interference and impact resistance. It's suitable for gas, hydraulic, environmental protection, medical and other industries.

Features

- Diffusion silicon-filled oil core with stainless 316L isolation diaphragm
- High accuracy, all stainless steel structure
- Micro amplifier, voltage and current signal output
- Strong anti-interference, good long-term stability
- Various structures, easy installation and use
- Wide measuring range, can measure absolute pressure, gauge pressure and sealed gauge pressure
- Vibration and shock resistance
- It can use App to reset and range span



Performance Parameter

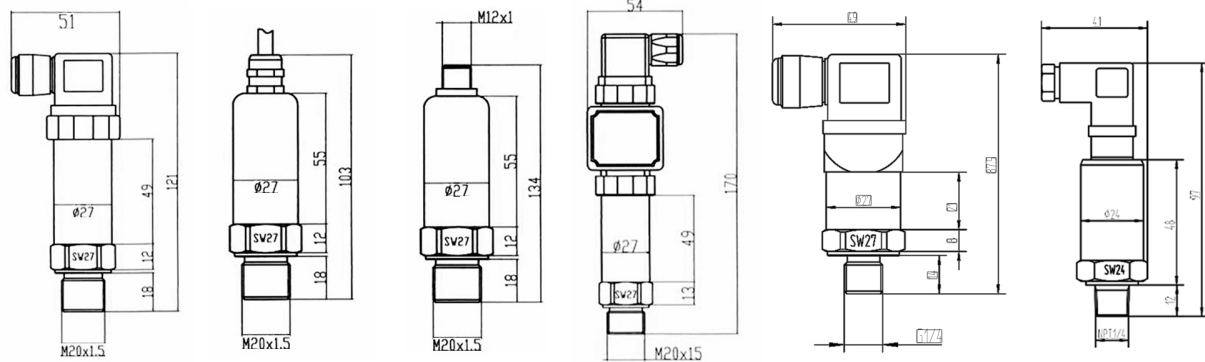
Pressure Range	-0.1~0~100MPa
Output	4~20mA/0~5V/0~10V/RS485/HART
Power Supply	10-30VDC/5VDC
Accuracy	0.5%F.S/0.2%F.S/0.1%F.S/0.075%F.S
Electrical Interface	Hirschmann(DIN43650A/DIN43650C)/M12/Cable
Thread	G1/2 / G1/4 / G1/8 / NPT1/2 NPT1/4 (Customizable)
Operating Temperature	-10°C~80°C
Medium Temperature	-40°C~80°C (≥80°C Cooling Part)
Relative Humidity	≤80°C
Overload	150%
Temperature Excursion	±0.02%/°C
Long-term Stability	±0.2%F.S/Year
Protection	IP65

Electromagnetic Compatibility Environment

Serial Number	Test items	Basic Standards	Test Conditions	Performance Level
1	Radiated interference (enclosure)	GB/T9254/EN 55011	30MHZ-1000MHZ	B(Note 2)
2	Conducted interference (DC power supply)	GB/T9254/EN 55011	0.15MHZ-30MHZ	B(Note 2)
3	Electrostatic discharge immunity	GB/T 17626.2/IEC 61000-4-2	4kV(touch),8kV(Air)	A(Note 1)
4	RF magnetic field	GB/T 17626.3/IEC 61000-4-3	10V/m(80MHZ-1GHZ)	A(Note 1)
5	Power frequency magnetic field	GB/T 17626.8/IEC 61000-4-8	30A/m	A(Note 1)
6	Electrical burst immunity	GB/T 17626.4/IEC 61000-4-4	2kV(5/50nS,100kHz)	A(Note 1)
7	Surge Immunity	GB/T 17626.5/IEC 61000-4-5	1000V(12u S/50 u s)	B(Note 2)
8	Radio frequency induction conduction anti-harassment	GB/T 17626.6/IEC 61000-4-6	10V(150kHz~80MHz)	A(Note 1)

Note 1: When the performance level is A, the performance is normal within the limits of the technical specifications.
 2: At performance level B, functions or performance are temporarily reduced or lost, but can be restored by themselves, and the actual operating status, storage and data remain unchanged.

Dimensions



Ordering Guide

QYB100	General Pressure Transmitter	
0-XMPa	Code	Measuring Range
	(0-X) Bar or MPa	X (Actual required range)
H	Code	Electrical Connections
	H	Hirschmann (DIN43650A)
	M	M12
	Z	Cable
	HY	Hirschmann with display
	W	Short Shell
	XH	Mini Hirschmann (DIN43650C)
	I	Code
I		4-20mA
R		RS485
V5		0-5V
V05		0.5-4.5V
V10		0-10V
C		CAN
F		FF
H		HART
5	Code	Accuracy
	5	0.5%F.S
	2	0.2%F.S
	1	0.1%F.S
	0	0.075%F.S
G14	Code	Thread
	G14	G1/4
	NPT14	NPT1/4
	G12	G1/2
	NPT12	NPT1/2
	G18	G1/8
	G38	G3/8
	Customized	
G	Code	Pressure Type
	G	Gauge Pressure
	A	Absolute Pressure
E	Code	Display
	E	LED
	C	LCD
	N	Non-dispaly
S4	Code	Wetted Material
	S4	SS304
	S6	SS316L
	SP	PTFE
	SM	Special Materials