Henan Felix Instrument Co., Ltd

FX80A Compact Pressure Transmitter

Product Overview

FX80A Series Intelligent Pressure Transmitter is a high-precision, highly stable pressure measurement product. Used digital technology which is the latest application results in the field of sensor manufacturing. The product is small volume, high precision, light weight, wide range measurement, suitable for various industries in precision measurement of fluid pressure.
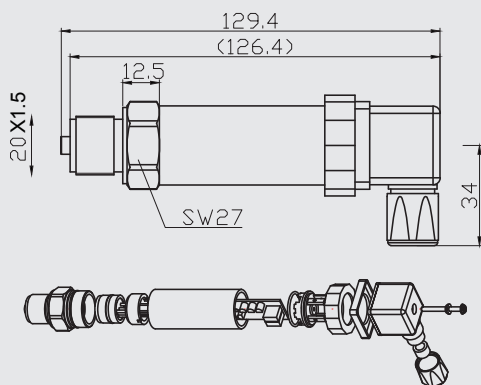
Main Feature

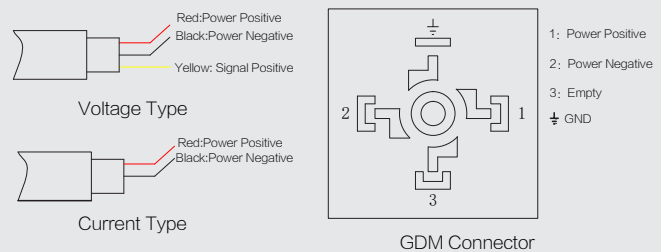| |
|---|
| ◆ Wide measurement range.Gauge,Absolute,Negative pressure |
| ◆ Laser marking, exquisite appearance |
| ◆ Meet GB3836 standard,with Explosion-proof certificate |
| ◆ The sensor adopts digital compensation and non -sexual correction |
| ◆ All stainless steel structure, various pressure ports |

Performance Index

Item	Technical Parameters
Pressure Range	0-5kPa ~ 260MPa (Specific refer to selection table)
Pressure Type	Gague,Absoulte,Negative Pressure (Optional)
Overload Pressure	Overload Pressure 150%,Burst Pressure 200%
Accuracy	0.25%F.S 0.5%F.S Optional
Long-term Stability	0.2%F.S/Year
Working Temperature	-20℃ ~ 70℃
Power supply	10V ~ 30VDC (24VDC)
Output Signal	4mA ~ 20mADC / 1V-5VDC / RS485 Optional
Protocal	MODBUS RTU / HART
Electronic connection	GDM Connector /Aviation Connector/Direct Cable / IP68 cable
Protection Grade	IP65 IP68
Explosion-proof level	Exia II CT4 Ga、Exd II CT6 Gb、ExtD A21 IP66 T80℃
Products Warranty	12 months

Dimensions

Electrical interface and wiring

Red:Power Positive
Black:Power Negative
Yellow: Signal Positive

Voltage Type

Red:Power Positive
Black:Power Negative

Current Type

1: Power Positive
2: Power Negative
3: Empty
⏚ GND

GDM Connector

FX80A Intelligent Compact Pressure Transmitter Model Selection Table

Item	Code					Description
FX80A	··					Intelligent Compact Pressure Transmitter
Pressure Sensor		··				Diffused silicon pressure sensor
	−1	··				Monocrystalline silicon pressure sensor
	−2	··				Silicon micro melting sensor
	−3	··				Ceramic capacitive pressure sensor
Pressure Range	A	··				0−7kPa ~ 20kPa
	B	··				0−20kPa ~ 70kPa
	C	··				0−70kPa ~ 350kPa
	D	··				0−200kPa ~ 700kPa
	E	··				0−0.7MPa ~ 3.5MPa
	F	··				0−2.0MPa ~ 7MPa
	G	··				0−7MPa ~ 35MPa
	H	··				0−35MPa ~ 260MPa
Pressure Type			···			Guage Pressure
	A		···			Absolute pressure
	F		···			Negative pressure
Accuracy		I	···			±0.1%F.S(Not applicable to G H ranges)
		II	···			±0.25%F.S
		III	···			±0.5%F.S
Output Signal		E	···			4mA ~ 20mADC 2−Wire
		K	···			1V ~ 5VDC 3−Wire
		R	···			RS485 4−Wire
		S	···			4mA ~ 20mADC+HART 2−Wire
Pressure Connection			R	··		M20*1.5 Male thread
			R1	··		G1/2 Male thread
			R2	··		G1/4 Male thread
			R3	··		1/2NPTMale thread
			R4	··		1/4NPTMale thread
			R5	··		φ50.5 Tri clamp
Electrical Connection				C1	·································	Gland plug,IP65 (1m Cable)
				C2	·································	GDM Connector,IP65
				C3	·································	Aviation Connectors,IP65
				C4	·································	Explosion−Proof direct lead (1m Cable)
				C6	·································	Cable direct cable lead IP68
Display Type					·································	Without Display(Standard)
				M2	·································	LCD Dispaly(GDM connector)
				M3	·································	LED Dispaly(GDM connector)
Explosion −proof Grade					·························	without explosion−proof requirement
				i	·························	Ex ia II C T4 Ga(Intrinsically Safe)
				d	·························	Exd II C T6 Gb (Suitable C4) (Flameproof)
				t	·························	Ex tD A21 IP66 T80℃ (Dust type)
Accessories (Optional)					Lm	Cable length (m)
					S	With Cooling Device
					P	Flush−membrane
					Y	Special requirement