PRESSURE MEASUREMENT

FD80B Universal Pressure Transmitter

Product Overview

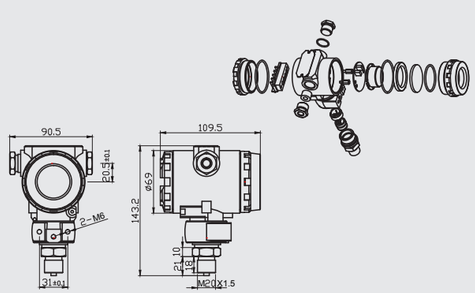
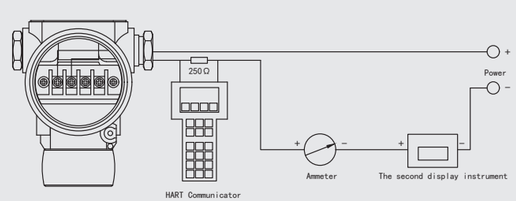
FD80B series intelligent universal pressure transmitter is a high -precision, high -stability, multi -parameter pressure measurement product. The digital technology combined with the international advanced piezoresistive echnology, precision digital temperature compensation and nonlinear correction.LCD 4-bit display, standard signal output, the on-site and control room observations. The reliable explosion -proof structure design and standardized signal output, high accuracy and wide coverage range, suitable for precision measurement of fluid pressure.

Main Feature

- ◆ Wide measurement range, gauge ,absolute ,negative pressure can be measured。
- ◆ Laser marking, exquisite appearance
- ◆ IP65 protective design, suitable for wild, open air, etc
- ◆ Meet GB3836 standard,with Explosion-proof certificate
- ◆ Digital circuit design, on-site adjustment button to zero

Performance Index

Item	Technical Data
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	0.1%F.S / 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 (Recommand 24VDC)
Output Signal	4mA ~ 20mADC / 1V-5VDC / RS485 Optional
Protocal	MODBUS RTU / HART
Electronic connection	M20*1.5(F)Standard. Other can be customized
Protection Grade	IP65
Explosion-proof level	Exia II CT4 Ga、Exd II CT6 Gb、ExtD A21 IP66 T80℃
Products Warranty	12 months

Dimensions	Electrical interface and wiring
	

FRID CONTROL

FD80B Intelligent Universal Pressure Transmitter Model Selection Table

Item	Code	Description
FD80B		Universal 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		Gauge Pressure
	A	Absolute pressure
	F	Negative pressure
Accuracy	I	±0.1%F.S(Not for G、H Pressure Range)
	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	1/2NPT Male thread
	R4	1/4NPT Male thread
	R5	ϕ50.5 Tri-clamp(1.5 inch)
Display Type		Without Display(Standard)
	M2	LCD Display
	M3	LED Display
Explosion -proof Grade		Without explosion-proof requirement
	i	Ex ia II C T4 Ga(Intrinsically Safe)
	d	Exd II C T6 Gb (Flameproof)
	t	Ex tD A21 IP66 T80℃ (Dust type)
Accessories (Optional)	Lm	Cable length (m)
	S	With Cooling fin
	P	Flush-membrane
	Y	Special requirement