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Цифровой датчик давления RS485 HART. Технические характеристики.



Features

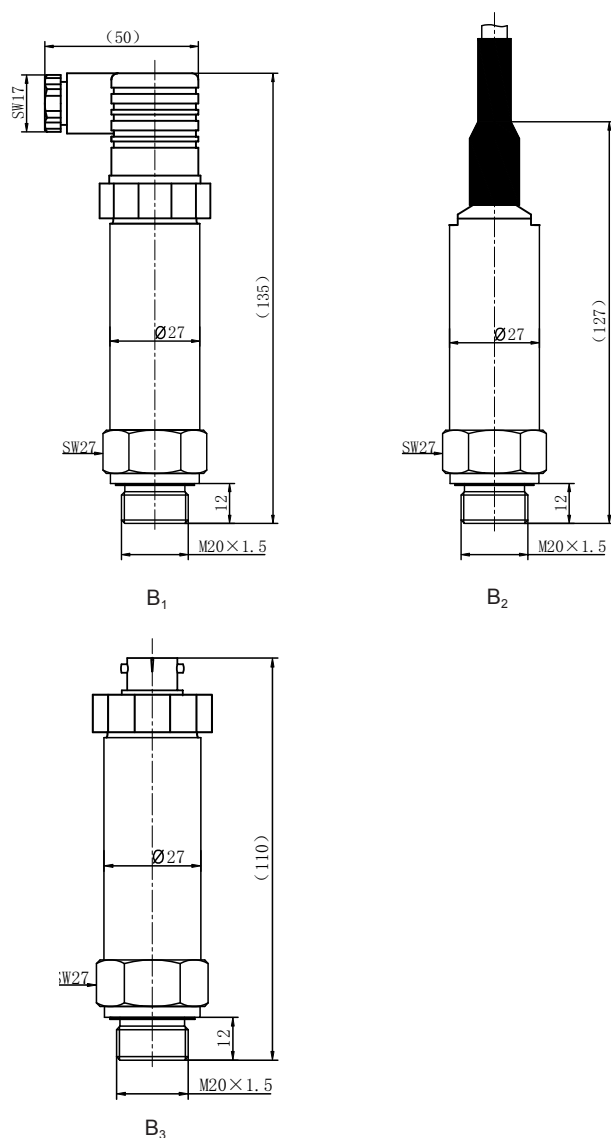
- 4mA~20mA DC 2-wire current output
- Digital compensation and non-linearity correction technics
- -10°C ~ 70°C digital wider temperature compensation
- RS485 communication interface or HART communication protocol(optional)
- Netting available
- Full stainless steel construction, compact size, light weight
- Special requirement available
- CE and RoHS certificated
- Intrinsic safe ex-proof version conforming to GB3836.4 ExialIBT6 Ga Regulation; Ex-proof Certificate is issued
- Marine type products accord with CCS classification of sea-going steel ships of the rules "(2018) the requirements, has obtained the type approval

Basic range (bar)	-1	1	2	3.5	7	10	20	35	70	100	200	350	600	1000
Overpressure (bar)	-1	1.5	3	5	10	15	30	50	100	150	300	500	900	1100

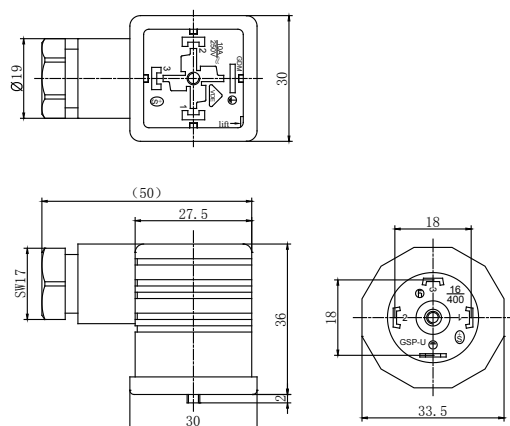
The min.shrunked available pressure range is 1/5 of basic range;
For the pressure range between min.range and max.range, but not indicated in the above table, we enlarge the above basic pressure range to produce (overpressure unavailable);

Total accuracy ①	±0.075%FS(min.); ±0.15%FS(typ.); ±0.25%FS(max.)
Stability	±0.2%FS/year
Compensation temp. ②	-10°C ~ 70°C
Operation temp.	-30°C ~ 80°C ; -10°C ~ 70°C (Cable); -20°C ~ 60°C (Intrinsic safe)
Storage temp.	-40°C ~ 85°C ; -20°C ~ 85°C (Cable)
Power supply	10V~28V DC(RS485); 12V~30V DC(HART); 10V~12V DC(Intrinsic safe)
Output	4mA~20mA DC RS485/HART(optional)
Load	4mA~20mA DC output; (U-10V)/0.02A(Ω)(RS485); (U-12V)/0.02A(Ω)(HART) RS485 bus line could connect with 99 transmitters
Electrical connection	DIN43650, 4-pin plug(RS485 socket inside) 7-pin plug(for RS485 interface output at local place) Φ7.2mm shielding cable
Insulation	100MΩ/50V
Shock	20g, (20~5000)Hz
Impact	20g,11ms
Protection	IP65(B ₁ , B ₂); IP63(B ₃)
Media compatibility	Diaphragm: SS 316L Housing: SS 304 O-ring: Viton
Weight	~160g
① Total accuracy: including linearity, hysteresis, repeatability and thermal error; ② For special temperature requirement, please feel free to contact our company.	

Outline Construction (Unit: mm)



Connector appearance and ordering



Electrical Connection

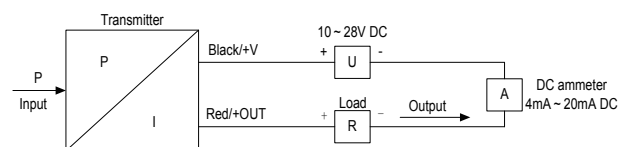
Transmitter connecting the air through plug or cable:

Electric connection of non-explosion proof product	Function	Inner plug pin color	Outer plug connection		
			4-pin plug	Cable wire	7-pin plug
	+V	1(Black)	1	Black	1
	+OUT/GND	2(Red)	2	Red	2
	RS485B	4(White)	⏏	White	5
	RS485A	5(Yellow)	3	Yellow (Green)	4

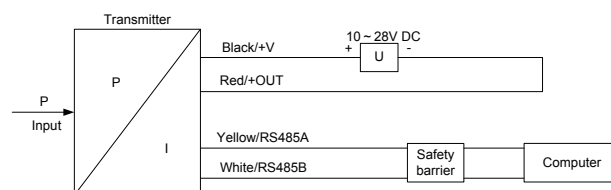
Electric connection of explosion proof product	Function	Inner plug pin color	Outer plug connection		
			4-pin plug	Cable wire	7-pin plug
	+V	1(Black)	1	Black	1
	+OUT/GND	2(Red)	2	Red	2
	Case	3(Blue)	⏏	Blue	7
	RS485B	4(White)	-	White	5
	RS485A	5(Yellow)	-	Yellow (Green)	4

Note: Explosion-proof product of 4-pin plug connection only provide 4mA ~ 20mA DC output

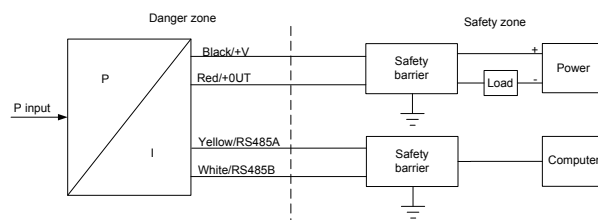
A: Electrical Connection for transmitter with 4mA~20mA DC output



B: Electrical connection for transmitter with RS485 interface



C: This Ann explosion-proof type electrical connection methods are shown below:



ExialIBT6 Ga

Transmitter Ex-proof parameter:

Ui: 12.4V DC Ii: 140mA DC

Li: 0mH Ci: 1.049μF Pi: 0.43W

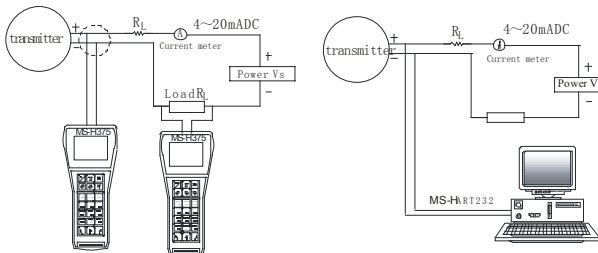
ExialIC

Safe barrier's ex-proof parameter:

Uo: 12.4V DC

Io: 140mA DC Po: 0.43W

D: Wiring for HART® transmitter connecting with hand communicator:



Assistant Software

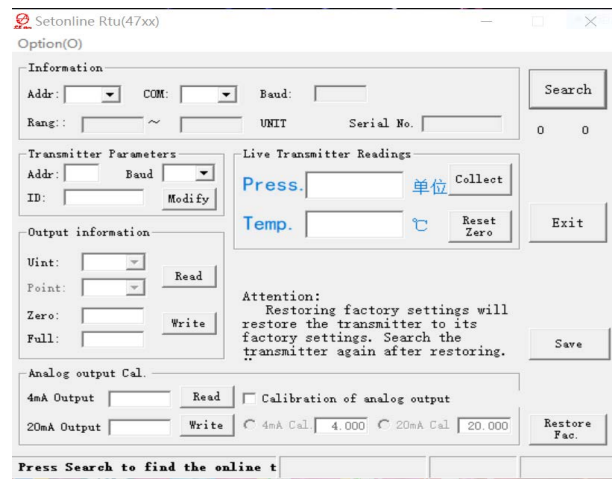
RS485 type:

Transmitter software through RS232/RS485 conversion module, is used to communicate with RS485 interface (including level range, compensated temperature range and version), displaying actual pressure, setting new zero, analog output and transmitter address.

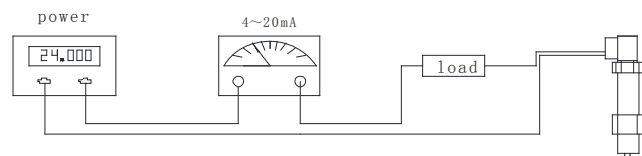
“MS Setonline” is used for ASCII protocol product (R4 type), Setonline Rtu is used for Modbus protocol product(R8 type).

Software could be downloaded from our website. Users may need to download other necessary tools.

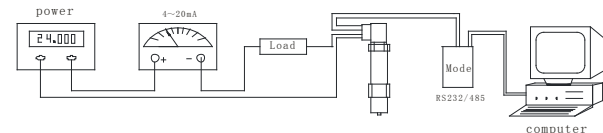
The initial address is random, if the user needs to reset the address, please notify us or reset it after receiving the product.



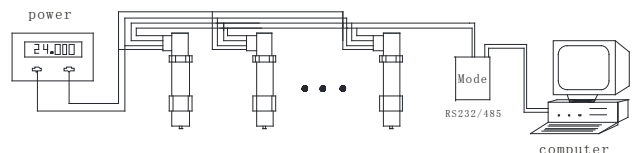
Local Application



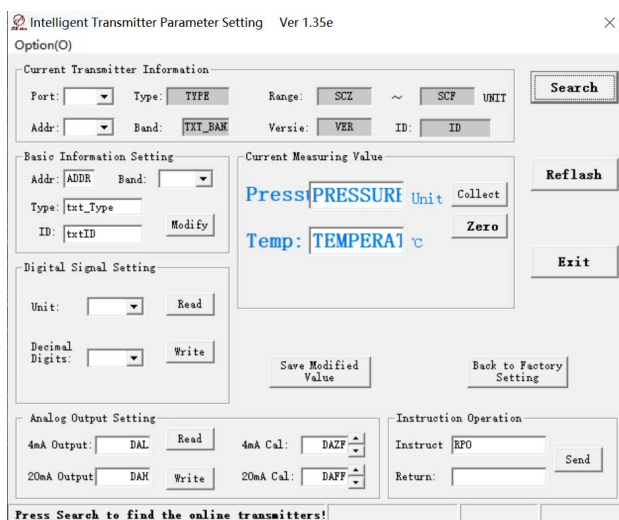
2-wire local pressure measurement



Calibration with computer



Transmitter with RS485 interface



Order Guide

MPM4730		Intelligent Pressure Transmitter					
		Range	-1bar...0bar~0.1bar...1000bar				
		[0~X]bar	X: Actual measure range				
			Code	Output signal			
			E	4mA~20mA DC			
			R ₄	RS485 interface, Customized ASCII protocol by MICROSENSOR			
			R ₈	RS485 interface, MODBUS_RTU protocol			
			H	HART [®] communication protocol			
			Code	Construction material			
				Diaphragm	Pressure port	Housing	
			22	SS 316L	SS	SS	
			24	SS 316L	SS 316L	SS 316L	
			Code	Others			
			B ₁	4-pin plug connection			
			B ₂	Cable connection, default cable length: 1.5m			
			B ₃	7-pin plug connection			
			PC ₁	Flush diaphragm, M20×1.5 male			
			PC ₃	Flush diaphragm, G1/2 male			
			C ₁	M20×1.5 male, face type seal			
			C ₃	G1/2 male			
			C ₄	G1/4 female			
			C ₅	M20×1.5 male, waterline seal			
			G	Gauge			
			S	Sealed gauge			
			A	Absolute			
			i	Intrinsic safe version ExialIBT6Ga			
	T	Ship-use					
MPM4730	[0~1]bar	ER ₄	22	B ₃ C ₁ G	the whole spec.		

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