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# CX-PT-530 differential pressure transmitter

## Application

Widely used in petroleum, chemical industry, metallurgy, electric power, light industry, building materials, medicine, environmental protection, scientific research, and other enterprises and institutions, realize to test the process fluid pressure, and is suitable for various occasions all-weather environment and all kinds of corrosive liquid.

## Technical data

Tested Medium	gas and liquid that compatible with SS316
Measuring Range	-95kPa-60MPa
Output	4-20mADC two wire or 0-10mADC three wire
Accuracy	0.25%F·S ,0.5%F·S
Zero Temperature Coefficient	$\leq 0.02\%/C$
Power Supply	12.5V-36V
Mechanical Protection	IP65
Explosion Class	iaIICT5

Tested Medium:gas and liquid that compatible with SS316

Measuring Range: -95kPa-60MPa

Output: 4-20mADC two wire or 0-10mADC three wire

Accuracy:0.25%F·S ,0.5%F·S

Zero Temperature Coefficient:  $\leq 0.02\%/C$

FullRangeTemperature Coefficient:  $\leq 0.02\%/C$

Power Supply:12.5V-36V, standard power supply is24VDC

Mechanical Protection: IP65

Explosion Class: ia II CT5

Related Equipment: LB801 type guard grating

Temperature Limit:using temperature:  $-10^{\circ}C$ - $+80^{\circ}C$

Storage Temperature:  $-40^{\circ}C$ - $+125^{\circ}C$

Overload Limit: 150%-200% of rated range

Load Resistance:  $\geq 750\Omega$ (See below diagram 1 for load characteristic )

Relative Humidity: $< 95\%$

Installation Site: no influence

Physical Properties

Isolate diaphragm: SS316 or ceramics diaphragm

Wetted parts: stainless steel

Sealing ring: NBR

Housing: Aluminium alloy

Body plating: epoxy resin

Process connection type: M20×1.5 male ,1/2NPT male

Electric connection: cable hole is 8



# CX-PT-3351 remote flange type differential pressure transmitter

Brife Introduction:

Remote differential/level transmitter is used for prevent the medium in the pipe direct into the transmitter. The capillary (filled with fluid) is connected between pressure sensing diaphragm and transmitter. It is used for measuring liquid, gas or steam's level/flow or pressure, then change it as 4-20mA signal output.



CX-PT-3351 remote differential pressure transmitter can use together with Hart handheld device.

CX-PT-3351 remote flange type differential pressure/level transmitter can used as the following condition:

1. tested medium is corrosive ;
2. need to isolate high temperature tested medium and transmitter;
3. tested medium has solid seston or high viscosity medium;
4. tested medium leads by lead pressure pipe and easily solidify or crystallize;
5. replace medium need to clean test convertor carefully;
6. test convertor need to keep hygiene. Use for: corrosive or viscosity liquid.

Selection :

CX-PT-3351	remote differential pressure/ level transmitter	
	code	range KPa
	3	0-1.3 ~ 7.5
	4	0-6.2 ~ 37.4
	5	0-31.1 ~ 186.8
	6	0-117 ~ 690
	7	0-345 ~ 2068

8	0-117KPa ~ 1MPa		
9	0-0.4 ~ 2.5MPa		
0	0-1.6 ~ 10MPa		
	code	output	
	E	4-20mADC	
	S	intelligent	
		code	flange material
		22	316SST
			316SST
		code	additional function
		S1	one remote device
		S2	two remote device
		code	option
		M1	0-100% linear indicator meter
		M3	3digit and a half LCD display meter
		M4	intelligent meter display
		B1	pipeline installation bend bracket
		B2	board installation bend bracket
		B3	pipeline installation flat bracket
		d	explosion suppression type dIIBT4
		i	Intrinsically safe type iaIICT6

Attn:

1.filled 200 series silicone oil, operating temperature -40-+149C; filled high-temp proof silicone oil, operating temperature -20 ~ +315C.

2.for corrosive medium, choose isolation diaphragm material..

# CX-PTB928 level transmitter hydrostatic level sensor liquid level instrument

CX-PTB -928 series hydraulic pressure level transmitter main part is a capacity pressure transmitter with temperature and pressure compensation which is made of diffuse silicon or pottery and porcelain. It has two type CX-PTB928 and CX-PTB928(S) which sort based on the size of the sensor. They use specific craftwork and have three protect functions inside which solve the problem of dew condensation. Measuring membrane tough the medium in large area, unease to locking, easy to clean. Father to exert the technical data of the resistant and the advantage of price. It adopt advanced digital circuit technical and have the function of the zero trace, linear compensation and temperature and pressure compensation. Display and Hart communication can be chose. It can be used in the deep water measuring, liquid measuring in tank, slot and hole, corrosive liquid measuring.



## technical data

- △measuring rage : 0~1Kpa~2Mpa
- △accuracy : 0.2、 0.5
- △explosion-proof grade:Exia II CT4~CT6
- △working voltage : 12.5~36VDC
- △range move : can change within the standard range 10 : 1
- △sensor material:96% alumina ceramics
- △sensor's outer material: SS316L, PTFE
- △protection grade:IP68
- △signal line hole : PG16
- △seal material: fluoro rubber,PTFE
- △shake effect: any shaft, 200HZ/g is 0.01%FS

## Connection diagram

In order to suit for the different specifically instrument,  
XSTK pressure transmitter have many different electric apparatus connection types:

- 4~20mA output
- 1~5V output

Adjust and calibrate

Unscrew the bolts which are used to adjust the cover,  
 poke the cover and put the potentiometer adjusting hole  
 outside Z (Zero) zero adjusting range  $\pm 5\%$  ; S (Span) full range adjusting range 30%.  
 If you need widely range  
 adjusting ,you can achieve zero 50% rise by the resistance on the  
 PCB board. Range move proportion is 10 : 1, potentiometer can achieve 3 : 1  
 movement.

Model choose table

CX-PTB-928 1 G 2 N 3 N 2 2 10 Detailed description

1	SS316L
2	Promissory special need
G	Common type
D	Flange DN50 PN4.0MPa GB9116.7-88
E	Flange DN80 PN4.0MPa GB9116.7-88
F	Flange DN100 PN4.0MPa GB9116.7-88
R	Male screw G2
S	Promissory special need
1	Analog signal 4...20mA, 2 wires
2	Analog signal 1...5V, 3 wires
3	Promissory special need
N	No local display
A	Analogy display counter
S	Promissory special need
1	0.1 (Exia II CT4~CT6 except)
2	0.2
3	0.5
N	No annex request
A	Pipe install annex
B	Wall install annex
D	Flange annex
E	Protective hood annex
S	Promissory special need
1	PVC
2	PTFE
1	1Cr18Ni9Ti
2	PTFE
10	L= m

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