

Product overview



PTC-DP/GP is used to measure the liquid level of the medium with working pressure

To prevent the medium in the pipe from directly entering the pressure sensor assembly in the converter, the connection between double flange liquid level transmitter pressure measurement flange and converter is realized by the capillary tube fill with silicone oil and other substances;

The double flange liquid level transmitter applies to measurement of liquid level of clean liquid medium and the medium which is easily crystallized, contains solid impurities and is viscous.

Product application

Due to height difference when two flanges are installed, the transfer should be added at the moment of adjustment. The negative transfer is added to the negative pressure remote transmission flange above. The computing method is as follows:

Measuring range: $P=r$ Negative transfer: $B=r_0h-rH_0$ r - specific gravity of the measured medium r_0 -specific gravity of silicone oil 0.97g/cm^3 in the formula

For example: It's known that $H=800\text{mm}$, $H_0=250\text{mm}$, $h=1300\text{mm}$, $r=1.2\text{g/cm}^3$

Measuring range: $P=r\cdot H=1.2\times 800=960\text{mmH}_2\text{O}$

Negative transfer: $B=r_0h-rH_0=0.97\times 1300-1.2\times 250=961\approx 960\text{mmH}_2\text{O}$

Before installation, the measuring range should be adjusted to $-960\sim 0\text{mmH}_2\text{O}$

Measurement of liquid interface

Stress on the positive pressure side: $PH=r_1(H_0+H_1+H-H_2)+r_2(H_2+h_0)$ Stress on the negative pressure side: $PL=r_1H_0+r_0(H_1+H+h_0)$

Differential pressure: $\Delta P=P H-P L=r_1(H_1+H)+r_2h_0-r_0(H_1+H+h_0)+(r_2-r_0)H$

Transfer: $B=r_1(H_1+H)+r_2h_0-r_0(H_1+H+h_0)$ Measuring range: $P=(r_2-r_0)H$ r_0 -specific gravity of silicone oil H -maximum interface height.

Product model selection

PTC-LD	Remote transmission differential pressure transmitter				
PTC-LG	Remote transmission pressure transmitter				
	Code	Measuring 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			
		Code	Output		
		E	4-20mADC		
		S	Intelligent type		
		22	Code	Flange material	
				316SST	
			Code	Additional functions	
			S1	One remote transmission device	
			S2	Two remote transmission devices	
			Code	Option	
			M1	0-100% linear dial indicator	
			M2	LED display meter	
			M3	LCD display meter	
			B1	Pipe mounting bend bracket	
			B2	Plate mounting bend bracket	
			B3	Pipe mounting flat bracket	
			d	Flame-proof type dIIBT4	
			i	Intrinsic safety type iaIICt6	