Explosion Proof Type Pressure Transmitter with Local Display Model : P700 (Stainless steel silicon cell, Standard head) P710 (Stainless steel silicon cell, Miniature head)



Advantages

- High precision pressure transmitter with local display for industrial applications
- Measuring ranges from 500mmH2O to 350bar (±0.25% of FS)
- Measuring ranges from 400bar to 1000bar (±0.5% of FS)
- Advanced piezoresistive silicon cell
- Excellent accuracy and long term stability
- Extremely high proof pressure
- LED 4 digit display with 4~20mA 2-wire current output signal

Applications

The P700 series pressure transmitter is ideal for measurements which require a local display and a need to communicate with remote data acquisition equipment in industrial applications. The 2-wire 4 to 20mA signal can be transmitted over great distance with negligible loss of accuracy.

- Standard hydraulic and pneumatic
- · Regulation system of transmission line of LPG and LNG
- Machine tools, water treatment and flow control
- Oil and off-shore industry
- Equipments for chemical and petrochemical industry
- Automation system and plant engineering
- Liquid level measurement

Certificate

Ex d IIC T6 (IP65)

Descriptions

P700/P710 series pressure transmitter with local display is a signal conditioned, media-isolated pressure transmitter that can be used for a wide variety of applications. The transmitter offers the convenience and easy installation of an LED display with the full capabilities of a highly accurate 4~20mA 2-wire system design. The 2-wire 4 to 20mA output signal can be transmitted over great distances with negligible loss of accuracy. The stainless steel surfaces make it compatible with a wide variety of gases and liquids and can be protected from harsh environment.

They are extremely versatile and suitable for measuring dynamic or static pressure. The transmitters are available as absolute and relative pressure types with either 2-wire current or 3-wire voltage output. The pressure to be measured acts through thin corrosion resistant stainless steel 316L diaphragm on a silicon measuring element. The pressure transmitting medium is silicon oil. The measuring element contains diffused piezoresistive resistances which are connected into a Wheatstone bridge. The output signal of this bridge is temperature compensated and converted into a standardized current or voltage output signal.





P710

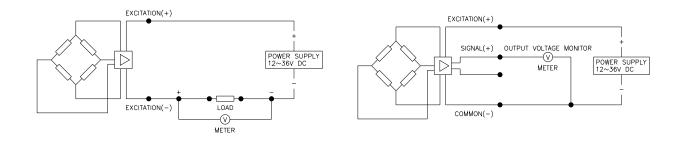
Specification

Input			
Model	P700 / P710 P700/P710		
Technology	Piezoresistive silicon pressure sensor Piezoresistive silicon high pressure se		
Pressure ranges	0 ~ 0.05 to 350kgf/cm ² relative pressure	0~400 to 1000 bar relative pressure	
°	0 ~ 1 to 350kgf/cm ² absolute pressure	0~400 to 1000 bar absolute pressure	
Pressure reference	Gauge, absolute, vacuum and compound		
Overload	3x full scale without damage 3x full scale without damage		
		(4x burst pressure)	
Output			
Current output signal	4~20mA DC 2-wire technique		
Voltage output signal	1~5V DC 3-wire technique		
	Other signals available on request		
Local display	LED 4 digit		
Electrical Specification			
Excitation voltage	24V DC(12~36V DC)		
Load resistance max @ 24V	500Ω at 24V		
Influence of excitation	0.01% FSO/V		
Power ripple	≤500mV P-P		
Reverse polarity	Protected		
Shock resistance	No change in performance after 10Gs for 11ms		
Response time (10~90%)	≤2 milliseconds		
Adjustment	±10% FSO/zero and span		
Performance Specification			
Accuracy	$\leq \pm 0.25\%$ FSO	$\leq \pm 0.5\%$ FSO	
Non-linearity	±0.100 FSO typical	±0.250% FSO typical	
Repeatability	±0.015 FSO typical ±0.020% FSO typical		
Pressure hysteresis	±0.010 FSO typical ±0.050% FSO typical		
Long term stability	±0.3% FSO over 6 month ±0.1% FSO over 6 month		
Cutoff frequency(-3 d B)	≤2KHz		
Reference temperature	35 °C	25 ℃	
Operating temperature range	-40~125°C	-40~125°C	
Compensated temperature range	0~82°C	-20~82°C	
Thermal sensitivity shift	$\leq \pm 0.2\%$ FSO in reference to 35 °C typical $\leq \pm 0.05\%$ FSO		
Thermal zero shift	$\leq \pm 0.2\%$ FSO in reference to 35 °C typical		
Thermal hysteresis	$\leq \pm 0.1\%$ FSO in reference to 35 °C typical		
Physical Specification			
Process connection	PT1/4", PT3/8", PT1/2" male thread		
	PF1/4", PF3/8", PF1/2" male thread		
	Other connections available on request		
Process media	Compatible with stainless steel 316		
Materials wetted by process	Diaphragm : stainless steel 316L		
	Housing : Aluminum Die-casting		
	Gasket O-ring : Viton (HNBR, CSM, etc.)	None	
Enclosure rating	IP65		
Explosion protection	Ex d IIC T6		
Influence of mounting position	Under 0.5kgf/cm2, mounting vertically Not critical		
Weight	Approx. 802g (P700) , 600g (P710)		
Options	Sealed diaphragm with thread connection		
	Sealed diaphragm with flange mounting		
	Siphon tube		
	Sealed diaphragm with capillaty		
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Note : If it is installed in explosive atmosphere, the covers should be kept tight when circuit alive.

System connection for 2-wire transmitter

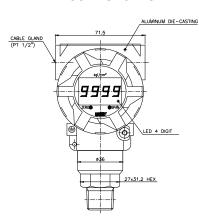
System connection for 3-wire transmitter



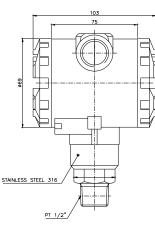
Dimension (mm)

Electrical connection

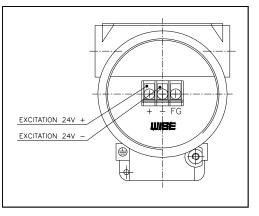




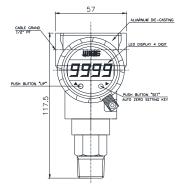
P700 Side View



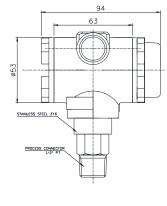
P700 Terminal Block

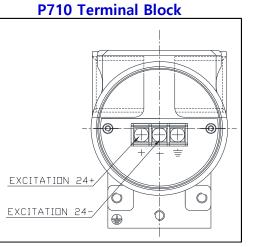


P710 Front View



P710 Side View





Ordering Information

Base model Piezoresistive silicon sensor (Standard head) 710 Image: Piezoresistive silicon sensor (Miniature head) 710 Piezoresistive silicon sensor (Miniature head) 711 Piezoresistive silicon sensor (Piezoresistive sensor (Piezoresistive sensor (Piezoresistive sensor (Piezoresistive sensor (Piezoresistive sensor (Piezoresistive sensor (Piezoresensor (Piezoresiste Piezoresistive sensor (Piezoresistive sensore	Explosion Proof Type Pressure Transmitter with Local Display			
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		X	Other accessories available on request	
D700 D M T 2 L H 01 K C N Sample ordering code		<u></u>		

P700 R M T 2 H 01 K C N Sample ordering code

Specifications subject to change without notice