

HuaTian

HPC-100

Instruction:

HPC-100 product is the intelligent display pressure controller combining with pressure measure, display and control together. The product is full electronics construction. The front part uses piezoresistive pressure sensor with isolated diaphragm as the sensing element, sensor output signal is amplified by high accurate and low temperature drift circuit, transferring into A/D convertor and transforming into digital signal. The processed signal controls two relays, and then measure and monitor pressure. The product is used flexibly and easily calibrated, can be used for pressure measure, display and control for power station, tap water, petroleum, chemicl industry, engineer and liquid pressure, ect.

Features:

- design of embedded microprocessor
- 4-digit LED display
- Alarm, control, remote signal in one
- Optional connection (RS232 and RS485)
- Relay load capacity: 30V/3A(DC) 240V/3A(AC)

Applications:

- Hydraulic/Pneumatic Control Systems
- Energy and Water Management
- Automation equipment
- Process control
- Chemical



● Specifications(Refer to 25°C)

Thermal drift refer to 25°C output

Sensor Type	Diffused silicon	Operable Temp. (°C)	-20~85°C
Wetted parts	316L Stainless steel	Storage Temp (°C)	-20°C ... 125°C
Housing	304 Stainless steel	Long term stability	±0.10%FS(annual)
Sealing method	Welding	Zero error (%FS)	±0.5%
Cable Outlet	IP65	Full range error (%FS)	±0.5%
		Thermal Zero drift (%FS) *	±1.0%
Connector Outlet	IP65	Thermal Span drift (%FS) *	±1.0%
		Input Voltage / Output	See below code description
Pressure port	See below code description	Response	1KHz
		Insulation	Min1MΩ @250VDC&25°C
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical)	Shock	100g, 11msec
Pressure Range(Bar)	0...600	Noise	< 2m VRMS
Over pressure	3X Full Range	Pressure reference	Absolute /Vent Gauge/ Seal Gauge
Burst pressure	4X Full Range or 20kpsi which is less		
Life	>10 ⁷ Full Range Pressure	Weight	350Max.

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HPT-100 Digital pressure controller model code

Model	Description							
HPC-100	Digital pressure controller							
	Range/Code	Pressure unit						
	0-X P	Pa						
	0-X K	Kpa						
	0-X B	Bar						
	0-X M	Mpa						
	0-X S	PSI						
		Code	Output Signal					
		E	4-20mA two wire					
		U	Two relays					
		R2	RS232					
		R4	RS485					
		Z	others					
			Code	Accuracy (%FS)				
			J1	0.1				
			J2	0.25				
			J3	0.5				
				Code	Pressure port			
				C1	M20*1.5			
				C2	M14*1.5			
				C3	G1/2			
				C4	G3/8			
				C5	G1/4			
				C6	1/2NPT			
				C7	1/4NPT			
				C8	ZG1/4			
				X	Customized			
					Code	I/O Outlet		
					B6	Aviation Plug(8 core cable)		
					X	Customized		
					Code	Pressure reference		
					G	Vent Gauge		
					A	Absolute		
						Code	display	
						M2	Led	

Example:

HPC-100	10B	E	J2	C3	X	G	M2	
HPC-100	10Bar	4-20mA	0.25%	G1/2	Customized	Gauge	Led	

Model Choose:HPC-100-10B-EJ2C3XGM2

Outline Drawing:

