

# HuaTian

## HPC-1000

### Instruction:

HPC-1000 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, chemi-industry, engineer and liquid pressure, ect.

### Features:

- design of embedded microprocessor
- 4-digit LED display
- Alarm,control,remote signal in one
- Can set high and low pressure or level alarm point
- 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 )

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%
Pressure port	C1M20*1.5 C2 M1.4*1.5	Input Voltage / Output	See below code description
	X Customized	Response	1KHz
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical)	Insulation	Min1MΩ @250VDC&25°C
		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 <sup>7</sup> Full Range Pressure	Weight	350Max.

- Thermal drift refer to 25°C output

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HPC-1000

HPT-1000 pressure transducer model code								
Model	Description							
HPC-1000	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					
		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-1000	10B	E	J2	C3	X	G	M2	
HPC-1000	10Bar	4-20mA	0.25%	G1/2	Customized	Gauge	Led	
Model Choose:HPC-100-10B-EJ2C3XGM2								

**Outline Drawing:**

