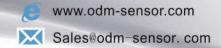


# SHENZHEN HUATIAN INSTRUMENT CO.,LTD Specialized pressure, liquid level, temperature technical solution



## 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 )

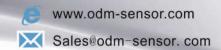


Sensor Type	Diffused silicon		Operable Temp. (℃)	-20~85℃	
Wetted parts	316L Stainless steel		Storage Temp (℃)	<b>-20</b> ℃… <b>125</b> ℃	
Housing	304 Stainless steel		Long term stability	±0.10%FS(annual)	
Sealing method	Welding		Zero error (%FS)	±0.5%	
Cable Outlet	IP65		Full range error (%FS)	±0.5%	
			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	0.5%(Typical)		Insulation	Min1MΩ @250VDC&25℃	
Non-repeatability) %FS			Shock	100g, 11msec	
Pressure Range(Bar)	0600		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<sup>™</sup>C output



## SHENZHEN HUATIAN INSTRUMENT CO.,LTD



## HuaTian

## HPC-1000

HPT-1000 pi	ressure transduc	er model	code								
Model	Description										
HPC-1000	Digital pressure controller										
	Range/Code	Pressure unit									
	0-X P	Ра									
	0-X K	Кра									
	0-X B	Bar									
	0-X M	Мра									
	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	1						
					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						
				Χ	Customized						
					Code I/O Outlet						
					B6	A	viation Plug(8 core cabl	e)			
					X	Code	Customized Pressure reference				
						G A	Vent Gauge Absolute				
						Α	Code	display			
							M2	Led			
Example:							IVIZ	LCu			
HPC-1000	10B	Е	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:**

