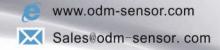


# SHENZHEN HUATIAN INSTRUMENT CO.,LTD Specialized pressure, liquid level, temperature technical solution



### HuaTian

HPC-100

#### Instruction:

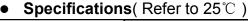
HPC-100 product is the intelligent display pressure controller combining with pressure measure, display and control together. The product is full electronics construction. The front part uses piezoresistive pressure sensor with isolated diaphragm as the sensing element, sensor output signal is amplified 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, chemi-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





Thermal drift refer to 25°C output

Sensor Type	Diffused silicon		Operable Temp. (℃)	-20~85℃	
Wetted parts	316L Stainless steel		Storage Temp (°C)	<b>-20</b> ℃…125℃	
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	Saa halaw aada dasarintian		Input Voltage / Output	See below code description	
	See below code description		Response	1KHz	
Accuracy (Combined Non- linearity, Hysteresis and	0.59/ /Typicol)		Insulation	Min1MΩ @250VDC&25℃	
Non-repeatability) %FS	0.5%(Typical)		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		1.5552.0 15.0.0.0		
Life	>10 <sup>7</sup> Full Range Pressure		Weight	350Max.	



# SHENZHEN HUATIAN INSTRUMENT CO.,LTD

## HuaTian

HPC-100

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	Мра										
	0-X S		PSI									
		Code	Output Signal									
		E	4-20mA two wire Two relays RS232 RS485 others									
		U										
		R2										
		R4										
		Z										
			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 co  X Customize		I/O Outlet					
							Aviation Plug(8 core cable)					
							Customized	•				
							Pressure reference					
				G Vent Gauge								
				A Absolute								
							Code	display				
							M2	Led				
Example:												
HPC-100	10B	Е	J2	C3	Х	G	M2					
HPC-100												
Model Choose:HPC-100-10B-EJ2C3XGM2												



# SHENZHEN HUATIAN INSTRUMENT CO.,LTD

www.odm-sensor.com
Sales@odm-sensor.com

Specialized pressure, liquid level, temperature technical solution

### **Outline Drawing:**

