HuaTian HPC-2000

Instruction:

HPC-2000 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:

- 4-digital display
- 4 relays/PNP/Analog signal/RS485 optional
- Φ60 orΦ100 dial diameter optional
- Easy setup menu, can achieve a variety of functions
- High sensitivity, high precision

Applications:

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

Specifications(Refer to 25℃)

Sensor Type	Diffused silicon		Operable Temp.（℃）	-20~85℃
Wetted parts	316L Stainless steel		Storage Temp（℃）	-20℃...125℃
Housing	304 Stainless steel		Long term stability	±0.10%FS(annual)
Sealing method	Welding		Zero error（%FS）	±0.5%
Pressure reference	Absolute /Vent Gauge/ Seal Gauge		Full range error（%FS)	±0.5%
			Thermal Zero drift（%FS）*	±1.0%
Connector Outlet	IP65		Thermal Span drift（%FS）*	±1.0%
Cable Outlet	IP65		Over pressure	3X Full Range
Pressure port	M20*1.5 or others		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℃
			Shock	100g，11msec
Pressure Range(Bar)	0...600		Noise	< 2m VRMS
Life	>10^7 Full Range Pressure		Weight	350g Max.

- Thermal drift refer to 25℃ output

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HPT-2000 pressure transducer model code

Model	Description
HPC-2000	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
F	1-5V
J	0-5V
Q	0-10V
U	4 relays
R2	RS232
R4	RS485
N	NPN
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

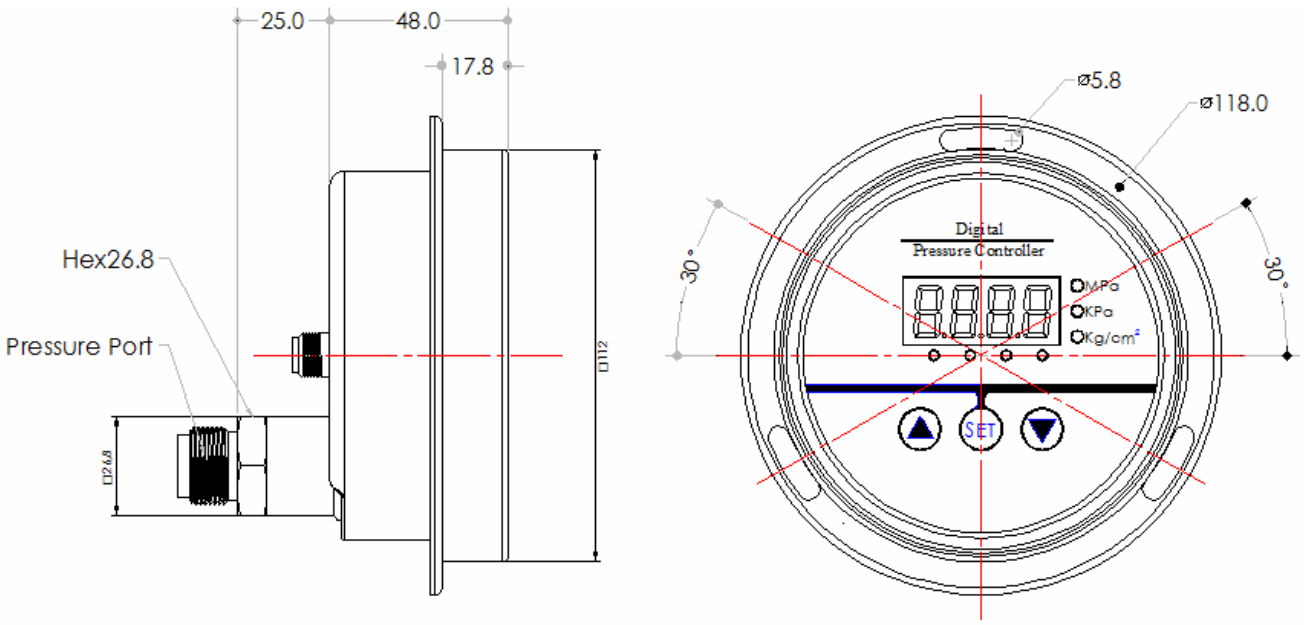
Code	display
M2	LED

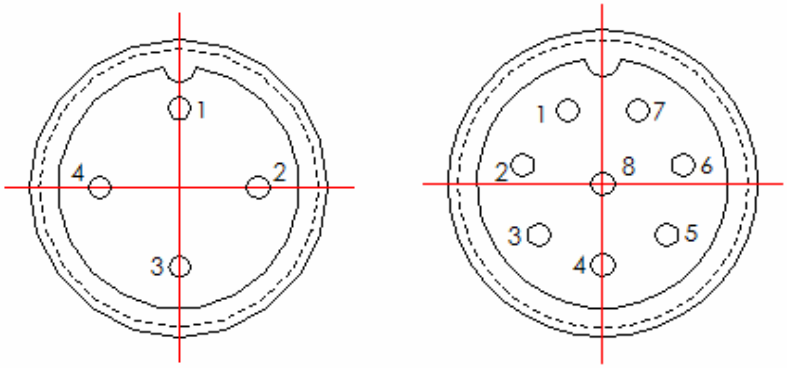
Example:

HPC-2000	10B	E	J2	C3	X	G	M2	
HPC-2000	10Bar	4-20mA	0.25%	G1/2	Customized	Gauge	Led	

Model Choose:HPC-2000-10B-EJ2C3XGM2

Outline Drawing:





Connector
(4Core)

Connector
(8Core)