ECC

Environmental Competency Consultancy

Pressure Transmitter Datasheet
ECC-P400

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ECC Pressure Transmitter Datasheet

ECC-P400 Pressure transmitter

Product description

ECC-P400 Series pressure transmitter is kind of device based on pressure layer, which inside expert integrate circuit can transform sensor milli-volt signal to standard far distance transmission current signal, and it can be directly joined with computer joint clip, control instrument ,aptitude instrument or PLC etc. conveniently. The series' product is applied extensively in the professions, such as the industry process control, petroleum, chemical engineering and metallurgy etc. Carry the distance delivers and can adopt electric current exportation method.

Product advantage

- The physical volume small, the weight is light;
- Work in the causticity environment;
- That product installs the convenience simple and direct;
- The whole stainless steel seals completely the structure,have the very high anti- to flap to pound at the function with anti.

ECC-P400 pressure transmitter for general industrial applications is not only notable for its compact design, but it also offers excellent at an extremely competitive price.The modular design of the device allows combining a variety of process connections, pressure ranges and electrical connection variants, covering virtually all industrial application requirements.

Highlights

(1)With display type
(2)No display type

Fully welded pressure measuring cell with
AISI 316L stainless steel diaphragm
Accuracy, terminal based:0.5%
temperature at zero point:±0.03%FS/℃
Measuring range:-1...0-2...1000bar
Ingress protection up to IP65

Applications

Oil industry paper industry chemical industry and so on.

Options and variants

P300G：Pressure transmitter Fins with cooling

PX300：Pressure transmitter with digital display

P350：Hygienic Pressure transmitter with flat film

P400：Pressure transmitter with Shell protection

TECHNICAL DATA

The following data is provided for general applications. If you require data that is more relevant to your specific application, please contact us.

MEASURE SYSTEM:	
Application Range	Measurement of gauge and absolute pressure in gases and liquids
Measuring Range	-1…0-2…1000bar

TECHNICAL PERFORMANCE	
Pressure Type	Gauge pressure absolute pressure sealing pressure
Power Supply	12VDC 24VDC 12-36VDC
Signal Output	4-20mA 0-20mA 0-5V 1-5V 0-10V RS485
Zero Drift	±0.03%FS℃
Accuracy	±0.5%FS℃,0.3%FS optional
Thermal Sensitivity Drift	±0.03%FS℃
Long Term Stability	≤0.2%FS℃ one year
Frequency Response(-3dB)	5kHz~650kH
Ingress Protection	IP65
Pressure Connection	G1/4, G1/2,1/2NPT,1/4NPT, M20*1.5etc.(optional)
Measure Medium	Gas, water, oil etc. (non-explosion-proof area)
Electrical Connections	DIN connector type, M12 connector, cable connector type
Time Response	＜10ms
Weight	Min，400g（depending on model）

MATERIALS:	
Housing	304/316L stainless steel
Fill Fluid	Silicon oil

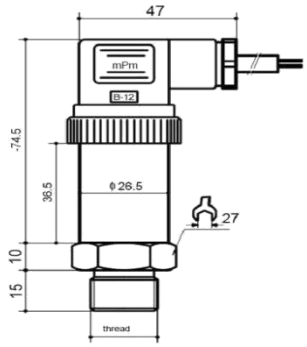
WETTED PARTS:	
Pressure Port	Stainless steel 304 / AISI 316L
Separating Diaphragm	Stainless steel 304/ AISI 316L
Sealing	FKM(medium temperature≤+200℃/392℃F);EPDM; NBR

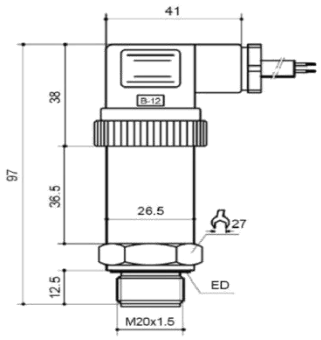
VOLTAGE SUPPLY:		
Output Signal	**Power Supply Standard**	**Option**
4-20 mA	**12VDC**	**12-36VDC**
0-20 mA	**24VDC**	**12-36VDC**
DC 0-5V	**24VDC**	**12-36VDC**
DC 1-5V	**24VDC**	**12-36VDC**
DC 0-10V	**24VDC**	**12-36VDC**

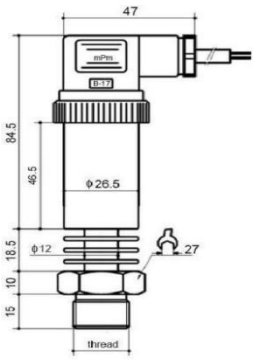
OUTPUT SIGNAL:	
Signal Type	Signal
Current(2-wire)	4-20mA
Voltage(3-wire)	0-5V 1-5V 0-10V

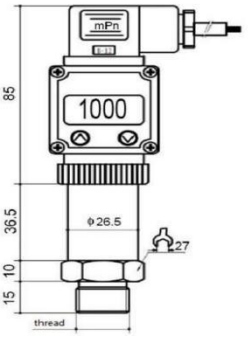
OPERATING CONDITIONS:	
Temperature	-20…+80℃/-4...+176°F
Nominal Temperature	-40…+85℃/-40...+185°F
Ambient Temperature	-40…+100℃/-40...+212°F
Storage Temperature	PN≤40 bar /580 psi：-40…+125℃/-40...+257°F
Medium Temperature	PN≥60 bar /870 psi：-25…+125℃/-13...+257°F
	With cooling fins（optional）： PN≤40 bar /580 psi：-40…+125℃/-40...+257°F PN≤40 bar /580 psi：-40…+125℃/-40...+257°F

SIZE CHART:

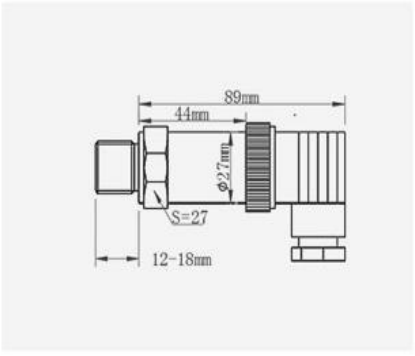




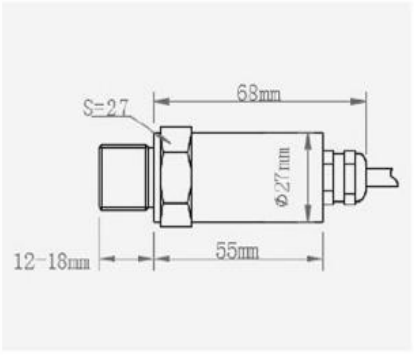




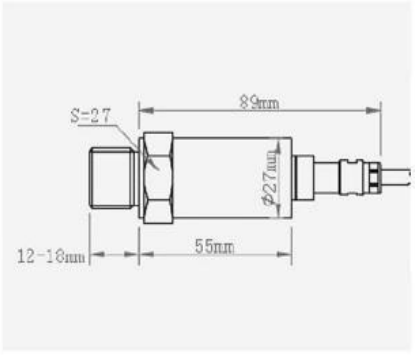
CONNECTOR TYPE:



DIN connector type

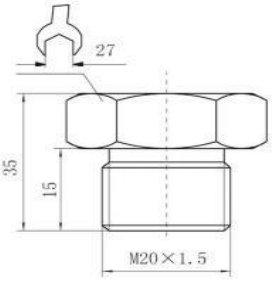
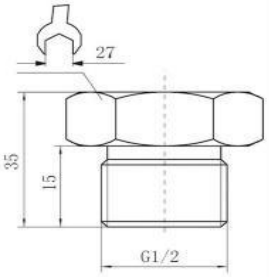
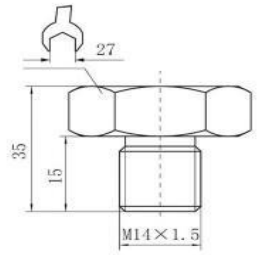
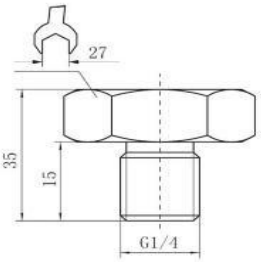


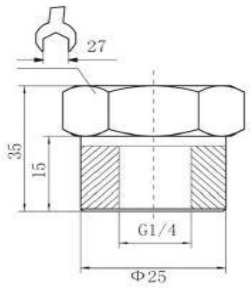
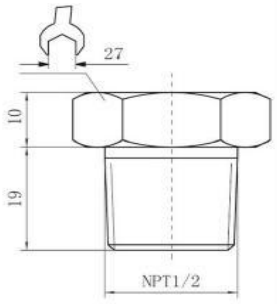
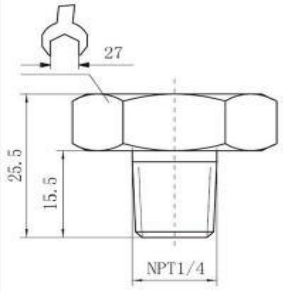
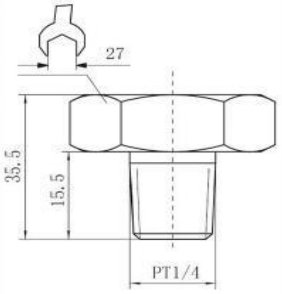
Cable connector type



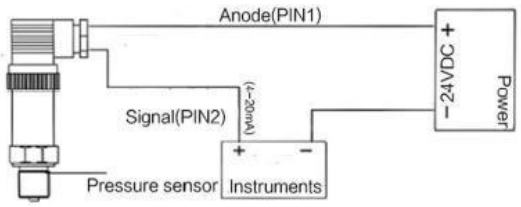
M12 connector type

PROCESS CONNECTION:

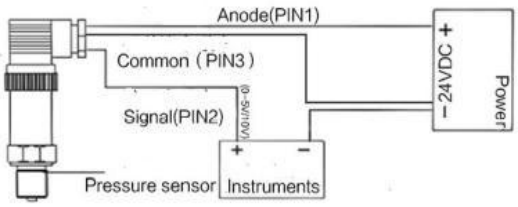
Thread	M20×1.5	G1/2	M14×1.5	G1/4
Size chart unit：mm				
No.	C1	C2	C3	C4

Thread	G1/4内	NPT1/2	NPT1/4	PT1/4
Size chart unit：mm				
No.	C5	C6	C7	C8

TERMINAL ASSIGNMENT:



Two-wire wiring diagram



Three-wire wiring diagram

Series								
A:ECC-P300, B:ECC-P300G, C:ECC-PX300, D:ECC-P350, E:ECC-P400								
	Measure Range							
		1	-100 kpa-0/-1bar-0/-14psi-0					
		2	0-10kpa /0-0.10bar-0/-1psi					
		3	0-50kpa/0-0.5bar/0-7psi					
		4	0-200kpa/0-2bar/0-29psi					
		5	0-1000kpa/0-10bar/0-145psi					
		6	-0.1-0.1Mpa/-1-1bar/-14-14psi					
		7	0-0.6Mpa/0-6bar/0-87psi					
		8	0-1Mpa/0-10bar/0-145psi					
		9	0-1.6Mpa/0-16bar/0-232psi					
		A	0-2.5Mpa/0-25bar/0-362psi					
		B	0-6Mpa/0-60bar/0-870psi					
		C	0-10Mpa/0-100bar/0-1450psi					
		D	0-20Mpa/0-200bar/0-2900psi					
		E	0-30Mpa/0-300bar/0-4351psi					
		F	0-40Mpa/0-400bar/0-5801psi					
		G	0-60Mpa/0-600bar/0-8702psi					
			Power Supply					
			A1	**12-36VDC**				
			A2	**12VDC**				
			A3	**24VDC**				
				Signal Output				
				B1 4~20MA				
				B2 0~10V				
				B3 1~5V				
					Process Connections			
					C1 20×1.5			
					C2 G1/2			
					C3 M14×1.5			
					C4 NPT1/4, etc., as required			
						Electrical Connectors		
						D1	DIN connector type	
						D2	Cable connector type	
						D3	M12 connector type	
							Optional Functions	
							E	Tantalum diaphragm
							F	Seismic requirements
							G	Compressive requirements