

PRODUCT OVERVIEW

PRESSURE MEASUREMENT

P20EX Industry Explosion Proof Type Pressure Transmitter



Characteristics

- ☆ Accuracy: $\leq \pm 0.5\% \text{F.S.}$
- ☆ High stability and reliability
- ☆ Using industrial silicon sensor
- ☆ Digital calibration system
- ☆ Multifarious electronic connector
- ☆ Multifarious pressure port
- ☆ Temperature compensate
- ☆ Zero point drift small ling
- ☆ CE Certificate approved
- ☆ Accord with ROHS standard
- ☆ Water proof from IP65 to IP68

Applications

- ☆ Hydraulic pressure controller
- ☆ Industrial automation control
- ☆ Oxygen Services
- ☆ Petrochemical industry
- ☆ Water conservancy
- ☆ Pressure meter
- ☆ Laboratory equipment
- ☆ Real-time management well
- ☆ Automatic detection system
- ☆ Gas pressure measurement
- ☆ And so on

Profiles

The intrinsically safe pressure transmitter P20EX is designed for use in hazardous environments, and offers a reliable pressure measurement, even in harsh and requiring applications.

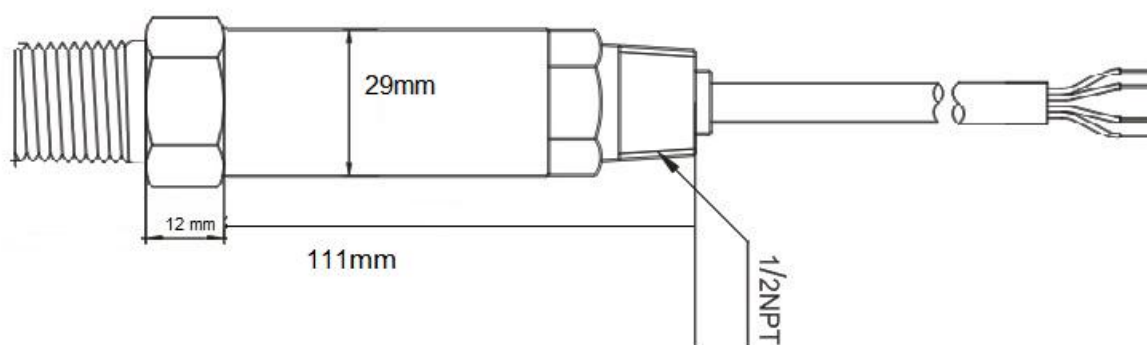
The flexible pressure transmitter programme is Ex ia IIC T6 explosion protected according to ATEX 100a and covers a 4-20 mA output signal, absolute and gauge (relative) versions, measuring ranges from 0-1 to 0-600 bar, plug connection and a wide range of pressure connections.

Excellent vibration stability, robust construction, a high degree of EMC/EMI protection and a high operating temperature, equip the pressure transmitter to meet the most stringent industrial requirements.

Specifications

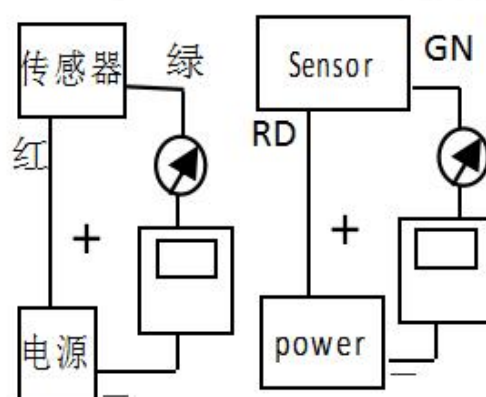
Model Parameter	P20EX
Pressure Range	-1 Bar-0-1 Bar; 0-0.1Bar.....600 Bar / 0-1 Psi...9000 Psi Optional
Pressure Type:	Gauge pressure; Absolute pressure optional.
Safe Overload	150% F.S.(standard)
Burst Pressure	300% F.S. (standard)
Accuracy: (Linearity Hysteresis Repeatability)	$\leq \pm 0.5\%F.S$ $\leq \pm 0.25\%F.S$ customized Including non-lin., rep. and hys. Optional
Long-term Stability	Standard: $0.1\%F.S \pm 0.05\%$
Working/Storage Temp.	$-30^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Tempe Compensation	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Medium compatible	Compatible with 316 Stainless Steel
Electrical Wire	2 Wires
Output	4~20mA
Power Supply	12~30 V DC
Load Resistance	$(U-10)/0.02 (\Omega)$
Insulate resistance	$>100M \Omega @100V \text{ dc}$
Zero Temp. Drift	$0.03\%FS/^{\circ}\text{C}$ ($\leq 100\text{kPa}$) , $0.02\%FS/^{\circ}\text{C}$ ($>100\text{kPa}$)
Body materials	304/316 stainless steel (standard); 1Cr18Ni9Ti stainless steel optional
Material of diaphragm	316L Stainless steel
Filling oil	Silicon oil (standard); Fluorocarbon oil (Oxygen Services)
Electrical connection	1/2"NPT male thread with outlet cable IP68
Mechanical vibration	$\pm 20g$
Pressure connect port	G1/4"male, G1/2"male, 1/4"NPT male, 1/2"NPT male and female optional.
Water Proof	IP68
Response time	$\leq 10\text{ms}$
Endurance	>100 million cycles, $0 \cdots 100 \%FS$ at 25°C
Certificated	CE Approving
Explore Proof Grade	Ex(ia) II C6 (standard type)
Options	Temperature Range Other temperature ranges on request. Maximal range: $-40 \dots +120^{\circ}\text{C}$ Oil Filling Fluorocarbon oil (O2-compatible), olive-oil, lowest temperature oil (-55°C) Pressure Connection, Electrical Connection Others on request. withstand Xylene medium pressure and level application (customized)

Dimension and Drawing



Electrical Connections

Electrical Wire Connections



Current output, 2-wire

Part Number Code Table For Pressure Range

000	-1-0	016	0-1.5	032	0-10	048	0-125
001	-1-1	017	0-1.6	033	0-12	049	0-150
002	-1-9	018	0-1.7	034	0-15	050	0-200
003	-1-10	019	0-1.8	035	0-16	051	0-250
004	-1-16	020	0-1.9	036	0-20	052	0-300
005	-1-20	021	0-2.0	037	0-25	053	0-350
006	-1-25	022	0-2.1	038	0-30	054	0-400
007	-1-30	023	0-2.2	039	0-35	055	0-450
008	-1-35	024	0-2.3	040	0-40	056	0-500
009	-1-40	025	0-2.5	041	0-50	057	0-600
010	-1-65	026	0-3	042	0-60		
011	0-0.5	027	0-4	043	0-65		
012	0-1.0	028	0-5	044	0-70		
013	0-1.1	029	0-6	045	0-80		
014	0-1.2	030	0-7	046	0-90		
015	0-1.3	031	0-8	047	0-100	X	Customized

Order Information

P/N Selection	P20 (Model)	H	E0	S37	3	010	B	1	1	N	G
Electrical Connection	EX= 1/2"NPT X=By customized										
Output	E0=1-5V (3 wire) E6=0-5V (3 wire) X=By Customized	E5= 4-20mA(2 wire) E7=0-10V(3 wire)									
Power Supply	S37=12~36Vdc S52=8~36Vdc S49=12~30Vdc	S44=15~36Vdc S17=10~30Vdc X= By Customized									
Pressure connection	3= 1/4" NPT male 8= M20x1.5 male 10 =1/2" NPT male	6=G1/4" male 9=G1/2" male X=By Customized									
Pressure Measurement	See last pages pressure range code table and select your requested range code adhere here										
Pressure Unit	B=Bar	P=Psi	K=KPa	M=MPa	H=mH2O						
Accuracy	1=0.5%F.S	2=0.25%F.S(by customized)									
Cable length	0=Non-Cable	1=Cable 1M	X=By Customized								
Other Spec	F= Flush diaphragm O= Oxygen Services	N= None (Standard) X= Withstand Xylene	A= Anti-Corrosion Type								
Pressure type	G=Gage	S=Sealed	A=Absolute								