Model P203 Series Corrosion Proof Pressure Transmitter

Features

- ▶ High corrosion proot pressure transmitter for industrial applications
- ▶ Measuring ranges from 0 ~ 0.1 to 1.0 MPa
- Advanced ceramic or teflon lined pressure sensor
- ► Teflon body & wetted parts

Applications

The P203 pressure transmitter can be used in the area of corrosion such as acid or something

- ▶ Machine tools and automatic machinery Flow control
- Semicondutcor processing system
- ▶ Equipments for chemical and petrochemical industry
- ► HVAC

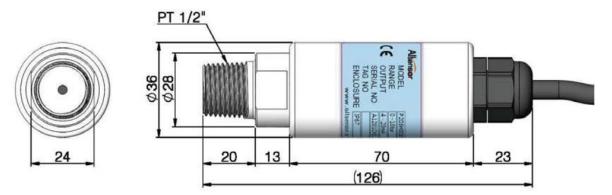
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Specifications

Input				
Technology	Al ₂ O ₃ 96 % Ceramic Sensor, Teflon Lined STS316L			
Pressure range	$0 \sim 0.1$ to 1.0 MPa Relative pressure			
Pressure reference	Gauge, vacuum, compound			
Overload pressure	1.5 times of F.S.			
Output				
	Current output		Voltage output	
Electrical connection type	2-wire techniqu	ie	3 or 4-wire technique	
Full scale output signal	20 mA	± 0.05 %	5 V	± 0.05 %
Zero measured output	4 mA	± 0.03 %	1V	± 0.03 %
	Other signals available on request			
Electrical Specifications				
Power supply	12~36 V DC (I	$12 \sim 36 \vee DC$ (It is not free voltage)		
Load resistance max@24 V	500 Ω at 24 V			
Power ripple	≤ 500 mV P-P			
Insulation resistor	≥ 20 MΩ, 25 V DC			
Performance Specifications				
Accuracy	$\leq \pm 0.5$ % F.S.	$(<1 \text{ bar}; \le \pm 1.0 \% \text{ of F.S.})$)	
Non-linearity	± 0.10 % F.S. ty	± 0.10 % F.S. typical		
Repeatability	± 0.05 % F.S. t	± 0.05 % F.S. typical		
Pressure hysteresis	± 0.05 % F.S. t	± 0.05 % F.S. typical		
Long term stability	± 0.20 % F.S. c	± 0.20 % F.S. over 1 year		
Response time(10 \sim 90 %)	≤ 20 ms			
Refernce temperature	25 °C	25 ℃		
Working temperature range(Process)	-40 ~ 135 °C	-40 ~ 135 °C		
Compensated temperature range(Process)	−10 ~ 50 °C	-10 ~ 50 °C		
Ambient temperature range	-20 ~ 60 °C			
Thermal offset shift	\leq ± 0.06 % F.S. in reference to +25 °C … +85 °C max.			
	\leq ± 0.15 % F.S. in reference to +40 °c \cdots +25 °c / +85 °c \cdots +135 °c max.			
Thermal span shift	≤ -0.020 % F.	S. in reference to -40 °C ···	135 °C typical	

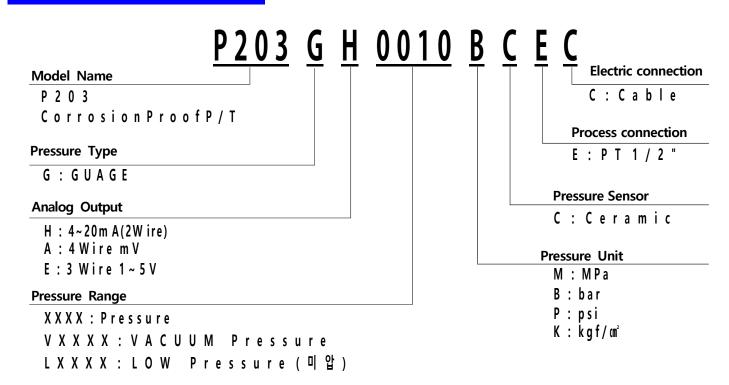
Physical Specifications		
Process connection	R(PT)1/2"(M) standard	
Electrical connection	Cable	
Process media	Gases and liquids compatible with Al ₂ O ₃ , Viton and Teflon	
Materials	Wetted parts : Al ₂ O ₃ 96 %, Viton and Teflon	
	Housing : Teflon	
IP grade	None	
Explosion proof	None	
Influence of mounting position	Not critical	
Weight	Approx, 250 g	
Option		

Dimension(mm)



Process Connection		Output	mV	V, mA	V. mA	mA
Trocess Co	meetion	Wire	4 Wire	4 Wire	3 Wire	2 Wire
С	L	1, Red	Excitation +	Power +	Power +	Power +
PT 1/2"	20	Ø, Black	Excitation -	Power -	Common -	Return -
		3, Green	Signal +	Signal +	Signal +	
		 White 	Signal -	Signal -		
		Power	V		12~33 V DC	

Ordering Information



Pressure Range is selected from the following code table.

Pressure Range Code

CODE	kgf/cm ²	bar	psi	MPa
0001	0~1	0~1	0~15	0~0.1
0003	0~3	0~3	0~45	0~0.3
0005	0~5	0~5	0~70	0~0.5
0006	0~6	0~6	0~90	0~0.6
0010	0~10	0~10	0~150	0~1
0015	0~15	0~15	0~200	0~1.5
0020	0~20	0~20	0~300	0~2
0025	0~25	0~25	0~350	0~2.5
0030	0~30	0~30	0~450	0~3
0035	0~35	0~35	0~500	0~3.5
0050	0~50	0~50	0~700	0~5
0070	0~70	0~70	0~1000	0~7
0100	0~100	0~100	0~1500	0~10
0200	0~200	0~200	0~3000	0~20
0250	0~250	0~250	0~3500	0~25
0300	0~300	0~300	0~4500	0~30
0350	0~350	0~350	0~5000	0~35
0500	0~500	0~500	0~7000	0~50
0700	0~700	0~700	0~10000	0~70
1000	0~1000	0~1000	0~15000	0~100
2000	0~2000	0~2000	0~28000	0~200
V0000	-76~0 cmHg	-1013~0 mbar	-30~0 inHg	-0.1~0
V0001	-76 cmHg~1	-1013 mbar~1	-30 inHg~15	-0.1~0.1
V0002	-76 cmHg~2	-1013 mbar~2	-30 inHg~30	-0.1~0.2
V0003	-76 cmHg~3	-1013 mbar~3	-30 inHg~45	-0.1~0.3
V0004	-76 cmHg~4	-1013 mbar~4	-30 inHg~60	-0.1~0.4
V0006	-76 cmHg~6	-1013 mbar~6	-30 inHg~90	-0.1~0.6
V0010	-76 cmHg~10	-1013 mbar~10	-30 inHg~150	-0.1~1
V0015	-76 cmHg~15	-1013 mbar~15	-30 inHg~200	-0.1~1.5
V0020	-76 cmHg~20	-1013 mbar~20	-30 inHg~300	-0.1~2
L0600	0~600 mmH2O	0~60 mbar	0~0.9	0~0.006
L1000	0~1000 mmH2O	0~100 mbar	0~1.5	0~0.01
L2000	0~2000 mmH2O	0~200 mbar	0~3	0~0.02
L3000	0~3000 mmH2O	0~300 mbar	0~4.5	0~0.03
L4000	0~4000 mmH2O	0~400 mbar	0~5.5	0~0.04
L5000	0~5000 mmH2O	0~500 mbar	0~7	0~0.05
00000		Other	Range	

Application Work Sheet (Pressure)

Quotation	Purchase Order
	to the customer, please fill this form out when you request a quotation or place o us to provide you the correct solution and minimize a risk which is our goal for
General Information	
Name TEL, No FAX, No	Date End–User Project Required delivery
Performance Specif	cations
Pressure Range Operating Range Measuring Unit	□ MPa □ bar □ kPa □ mmHg □ mmH₂O □ mbar □ kgf/cm² □ Torr □ psi □ °C □ °F
Pressure reference Output signal Power Supply	□ Gauge □ Absolute □ Vacuum □ Compound □ mV/V □ 4 ~ 20 mA □ 1 ~ 5 V □ 0 ~ 10 V □ 24 V DC □ 12 V DC
Physical Specification	ons
Process Connection Electrical Connection Local Display Unit	 PT 1/4" PT 3/8" PT 1/2" G1/4" G1/2" PF 1/4" PF 3/8" PF 1/2" NPT1/4" NPT1/2" Flush 1/2" Flush 3/4" Flush 1" 40A Flange 50A Flange 80A Flange 100A Flange Sanitary Diaphragm Other Terminal DIN 43650 M12 Connector Cable(1.5 m) None LCD LED
Process Conditions	
Process Media Operating Temperature Humidity Vibration	
Explosion Protection Weather Protection	Required No required Required No required

 \cdot Specifications are subject to change without notice.