# This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

# Model PM21T

# For High Tempererature Applications



### **Features**

- Measuring ranges from 350mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Wider operation temperature range
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

### **Product Overview**

PM21T is made from high temperature silicon piezoresistive sensor chip. The piezoresistive sensor chip is packaged in a fluid-filled cylindrical cavity and isolated from measured media by a stainless steel diaphragm and housing. The measured media is transferred onto sensor throughheating cooling parts, and high accuracy amplified circuit board is in stainless steel housing, transmitting sensor signal into standard output signal.

A wide range of process connection and electrical connection options are available to meet almost requirement.

## **Applications**

- Process control systems
- Hydraulic systems and valve
- Machine building
- Steam and heat exchange

## Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-10bar	•		
00.35bar	•		•
00.7bar			•
01bar	•		•
01.6bar	•		•
02.5bar	•		•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	
0250bar		•	
0400bar		•	
0600bar		•	

Other pressure ranges available. Please consult the factory.

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## **Performance Specifications**

Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-0.35,,600			bar	1bar=14.5	5psi
Overpressure	1.5xFS	1.5xFS				
Environmental						
Medium Temperature Range	0 to +150(stand	ard), 0 to +3	00	°C	32°F to 30	)2°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	8°F
Environment Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Vibration	10			g	20 to 2000	OHz
Shock	100			g	10ms	
Cycles	10 <sup>6</sup>			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	)5Vdc	15Vdc	010Vdc		
Power Supply(Vs)	1236Vdc 1236Vdc 1236Vdc			1536Vdc		
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	$\Omega$ (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with 3	16L stainless s	teel		
Electronic Housing	Aluminum alloy					
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard)					
Net Weight	Approx.755g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance						
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±1	±1.5	%FS	0	3
Temp Coeff - Span		±1	±1.5	%FS	0	3
Long-Term Stability		±0.2	±0.3	%FS	O/year	1

### Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

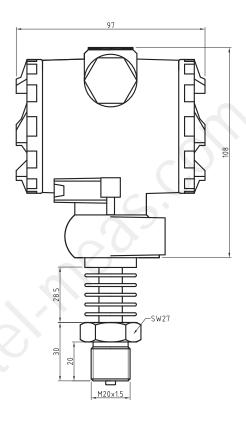
 $The\ listed\ specifications\ and\ dimensions\ are\ subject\ to\ change\ without\ prior\ notice.$ 

## **Connection Diagrams**

Terminal			
		2-wire(current)	4-wire(voltage)
	Supply+	Α	Α
	Supply-	В	В
	Signal+	-	D
	Signal-	-	С

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## Dimensions (in mm)



## **Ordering Information**

Option1:	Model									5 U
PM21T	High-Te	mperatu	ıre Pressı	ıre Transn	nitter					
	Option2: Pressure Ranges									
	N001	-10b	ar		0060	06bar	400	00	0400bar	
	0003	00.3	5bar		0100	010bar	600	00	0600bar	
	0007	00.7	bar		0160	016bar	Схх	ΚX	Customized range	
	0010	01ba	ar		0250	025bar				
	0016	01.6	bar		0600	060bar				
	0025	02.5	bar		1000	0100ba	r			
	0040	04ba	ar		2500	0250ba	r			
		Option3: Pressure Type								
		G								
		Α	absolu							
		S		ealed gauge						
					l: Output Signal 420mA 05Vdc					
			42							
			05							
			15	15Vd						
			10	010V	'dc					
			-	-	Option5: Accuracy 02					
				05	Option6: Electrical Connection					
					Т	Termina	al			
					-	-				
					-	-				
					-	-				
					Option7: Mechanical Connection					
						M2	M20x1.5(male)		N1 1/4NPT(male)	
						G4	G1/4(male)		4 G1/4(female)	
				0.0		G2	G1/2(male)		lx Customized	10.00 7.01
PM21T	0010	G	42	02	T	G4	Examples of Order	ing	Code: PM21T-0010-G-	42-02-T-G4