Pressure Transducers & Transmitters

Product Selection Guide





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Model PM20S For General Industrial Applications



Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM20S is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The PM20S is precision engineered to fit most industrial pressure measurement. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-10bar	•	()	
-0.350bar	•		
-0.20bar			
00.1bar	•		
00.2bar	•		
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.

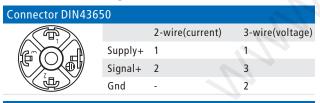
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-0.1,	,600		bar	1bar=14.5	ipsi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA)5Vdc	15Vdc	010Vdc	0.54.!	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with 31	6L stainless s	teel		
Housing	304 stainless ste	eel				
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight Net Weight	Approx.185g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3
Temp Coeff - Span		±0.75	±1.5	%FS	0	3
Long-Term Stability		±0.2	±0.3	%FS	0/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).

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

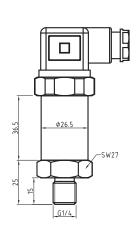


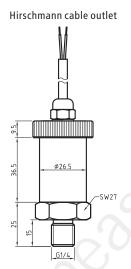
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

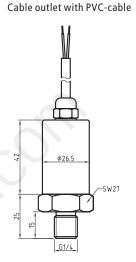
Connector M12x1(4-pin)							
_		2-wire(current)	3-wire(voltage)				
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1				
4. • 2	Signal+	2	3				
	Gnd	-	2				

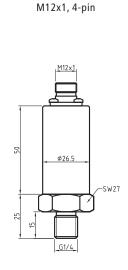
Dimensions (in mm)











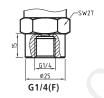
Mechanical Connection (in mm)











Option1:											
PM20S	Piezore	sistive P	ressure Tr	ransmitte	r					>	
	Option2: Pressure Ranges										
	N001	-10b	ar		0016	01.6bar	0	600	060bar		
	N002	-0.35	.0bar		0025	02.5bar	1	000	0100bar		
	N003	-0.2(0bar		0040	04bar	2	500	0250bar		
	0001	00.1	bar		0060	06bar	4	000	0400bar		
	0003	00.3	5bar		0100	010bar	6	000	0600bar		
	0007	00.7	bar		0160	016bar	C	XXX	Customized range		
	0010	01ba			0250	025bar					
		Option	13: Press	ure Type							
		G	gauge								
		Α	absolu								
	S sealed gauge										
	Option4: Output Signal										
	42 420mA										
	05 05Vdc										
			15	15Vc							
			10)10Vdc						
			45		5(ratio						
					15: Acc						
					02 0.25%FSO						
				05	0.5%						
					Optio		ical Connection				
					D		tor DIN43650				
					Н		nann cable outlet,				
					C		utlet with PVC-cal	ble,le	ngth=1.5m		
					M	M12x1,					
							7: Mechanical Co				
						M2	M20x1.5(male)		N1 1/4NPT(male)		
						G4	G1/4(male)		F4 G1/4(female)		
						G2	G1/2(male)		Nx Customized		
PM20S	0010	G	42	02	D	G4	Examples of Ord	ering	Code: PM20S-0010-G-4	2-02-D-G4	

Model PM20C For General Industrial Applications



Features

- Measuring ranges from 1.6bar to 250bar
- Gauge type
- Accuracy: ±0.5%FSO
- Calibrated and temperature compensated
- Ceramic pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM20C pressure transmitters offers the user the high stability of ceramic piezoresistive sensor in a low cost OEM package. The PM20C is developed for applications of processing and control operations involving aggressive media. The compactand rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Mechanical and plant engineering
- Pumps and compressors

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
01.6bar	•		
02.5bar	•		
04bar			
06bar	•		
010bar	•		
016bar	•		
025bar	•		
040bar	•		
060bar	•		
0100bar	•		
0160bar	•		
0250bar	•		

other pressure ranges available. Please consult the factory.

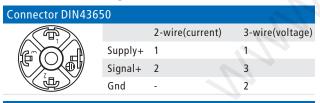
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1.6,,250			bar	1bar=14.5	psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	0 to +70			°C	32°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.!	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with ce	ramic			
Housing	304 stainless sto	eel				
Diaphragm	Ceramic					
Seal Ring	Viton or NBR					
Oil Filling	1					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight Net Weight	Approx.175g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
Accuracy	0.25	0.5	1.0	%FS	0	1,2
Temp Coeff - Zero		±1.5	±2.0	%FS	0	3
Temp Coeff - Span		±1.5	±2.0	%FS0	0	3
Long-Term Stability		±0.2	±0.3	%FS0	0/year	1

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. 0° C to 70° C(32°F to 158°F) with reference to 25°C(77°F).

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

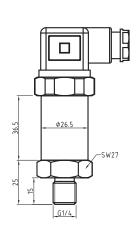


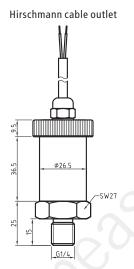
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

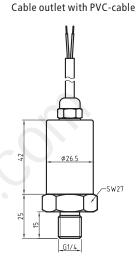
Connector M12x1(4-pin)								
_		2-wire(current)	3-wire(voltage)					
3 • • 1 4 • • 2	Supply+	1	1					
	Signal+	2	3					
	Gnd	-	2					

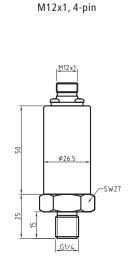
Dimensions (in mm)

Connector DIN43650









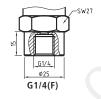
Mechanical Connection (in mm)











Option1:	Model										
PM20C	Ceramio	. Pressur	e Transm	itter							
	Option	2: Press	ure Ran	ges							
	0016	01.6	bar		0400	040bar					
	0025	02.5	bar			060bar					
	0040	04ba	ır		1000	0100ba	r				
	0060	06ba	ır	1600 0160bar							
	0100	010k	ar 2500 0250bar								
	0160	016b	.16bar Cxxx Customized range								
	0250	025b	ar								
		Option	Option3: Pressure Type								
		G	gauge								
				n4: Outp		ıl					
			42	420m							
			05	05Vd							
			15	15Vd	-						
			10	010V							
			45		5(ration						
					15: Accu						
				05	0.5%F	7.					
				10	1.0%F						
							ical Connection				
					D		tor DIN43650				
					Н		nann cable outlet,lei				
					С		utlet with PVC-cable	e,length	n=1.5m		
					М	M12x1,					
							7: Mechanical Con				
						M2	M20x1.5(male)	N1	1/4NPT(male)		
						G4	G1/4(male)	F4	G1/4(female)		
21122	0000		12	0.5	-	G2	G1/2(male)	Nx	Customized		
PM20C	0060	G	42	05	D	G4	Examples of Order	ng Cod	e: PM20C-0060-G-42-05-D-G4		

Model PM20F For General Industrial Applications



Features

- Measuring ranges from 16bar to 600bar
- Gauge type
- Accuracy: ±0.25%FSO, ±0.5%FSO
- Calibrated and temperature compensated
- Foil strain gauge pressure sensor design
- Fully welded structure, no-ring inside
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM20F metal foil strain gauge pressure transmitter is designed for superior high pressure applications up to 600bar. This model provides a very high long-term stability and a very good accuracy. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment. A wide range of process connection and electrical connection options are available to meet almost requirement.

Applications

- Process control systems
- Hydraulic systems and valve
- Mechanical and plant engineering
- Test equipment

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
016bar	•		
025bar	•		
040bar			
060bar	•		
0100bar	•		
0160bar	•		
0250bar	•		
0400bar	•		
0600bar	•		

other pressure ranges available. Please consult the factory.

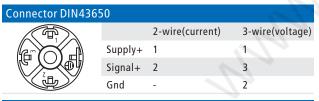
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-16,,600			bar	1bar=14.5	psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-40 to +85			°C	-40°F to 1	85°F
Compensated Temperature Range	0 to +70			°C	32°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0.	5Vdc	15Vdc	010Vdc	0.54.	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 12	236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A (For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	tible with st	ainless steel			
Housing	304 stainless stee	el				
Diaphragm	stainless steel					
Seal Ring	1					
Oil Filling	1					
Protection	IP65(Standard), I	P66(only fo	r cable outlet)			
Net Weight	Approx.280g					
Parameter	Minimum	Typical	Maxim	um Units		Notes
Performance					70	
Accuracy	0.1	0.25	0.5	%FS0)	1,2
Temp Coeff - Zero		±1.0	±1.5	%FS0	0	3
Temp Coeff - Span		±1.0	±1.5	%FS0)	3
Long-Term Stability		±0.2	±0.3	%FS0	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(32°F to 158°F) with reference to 25°C(77°F).

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

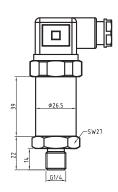


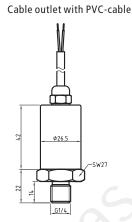
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

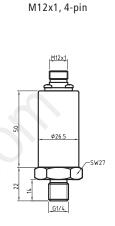
Connector M12x1(4-pin)										
		2-wire(current)	3-wire(voltage)							
3 • • 1	Supply+	1	1							
4 • 2	Signal+	2	3							
	Gnd	-	2							

Dimensions (in mm)

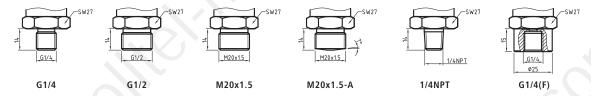
Connector DIN43650







Mechanical Connection (in mm)



Option1:												
PM20F				re Transmi	tter							
			ure Ran	ges						4		
	0160	016		r 4000 0400bar								
	0250	025				0600ba						
	0400	040			Cxxx	Customize	ed range					
	0600	060										
	1000	0100										
	1600	0160										
	2500	0250										
			n3: Press	ure Type								
		G	gauge									
			Option4: Output Signal									
			42 420mA									
				05 05Vdc								
			15	15Vd			<u> </u>					
			10	010V			•					
			45		5(ration							
					15: Accu							
				02	0.25%							
				05	0.5%F							
							ical Connection					
					D		tor DIN43650					
					C		utlet with PVC-cable	length,	n=1.5m			
					М	M12x1,						
							7: Mechanical Conr					
						M2	M20x1.5(male)	G2	G1/2(male)	Nx	Customized	
						M2A	M20x1.5-A(male)	N1	1/4NPT(male)			
			42	0.2		G4	G1/4(male)	F4	G1/4(female)	42.02	D. C.4	
PM20F	0400	G	42	02	D	G4	Examples of Orderi	ng Cod	e: PM20F-0400-G-	42-02-	D-G4	

Model PM20G For General Industrial Applications



Features

- Measuring ranges from 5bar to 600bar
- Absolute, gauge
- Accuracy: ±0.5%FSO or ±1.0%FSO
- Calibrated and temperature compensated
- Stainless steel mono-block construction
- Advanced microfused silicon strain gauge
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

The PM20G is based on MEMS technology (microelectromechanical system). Through high temperature, silicon strain gauge is sintered on 17-4PH stainless steel sensor elastomer, which is integrated with the pressure connector.

This model provides a very high long-term stability. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Automatic testing system
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
05bar	•		•
010bar	•		•
016bar			•
025bar	•		•
040bar	•		•
060bar	•		•
0100bar	•		•
0160bar	•		•
0200bar	•		•
0250bar	•		•
0300bar	•		•
0400bar	•		•
0500bar	•		•
0600bar	•		•

Other pressure ranges available. Please consult the factory.

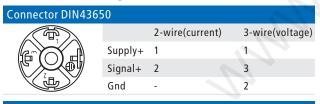
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-5,,600			bar	1bar=14.5	psi
Overpressure	3xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Storage Temperature Range	-40 to +105			°C	-40°F to 2	21°F
Vibration	20			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0)5Vdc	010Vdc	0.54.5Vd	dc(ratiometri	ic)
Power Supply(Vs)	930Vdc 9	30Vdc	1530Vdc	5Vdc		
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltag	e output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	atible with 17	7-4PH stainles	s steel		
Housing	304 stainless ste	eel				
Diaphragm	17-4PH stainless	s steel				
Seal Ring	1					
Oil Filling	1					
Protection	IP65					
Net Weight	Approx.220g					
Parameter	Minimum	Typical	Maxim	um Uni	ts	Notes
Performance			'		00	
Accuracy		0.5	1.0	%F	50	1,2
Temp Coeff - Zero		±0.02	±0.03	%FS	50/°C	3
Temp Coeff - Span		±0.02	±0.03	%F5	50/°C	3
Long-Term Stability		±0.3	±0.5	%F5	50/year	1

Notes

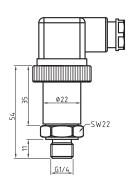
- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -20°C to 85°C(-4°F to 185°F) with reference to 25°C(77°F).

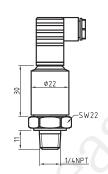
The listed specifications and dimensions are subject to change without prior notice.

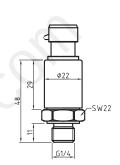


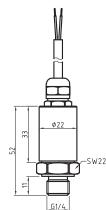
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

Packard Connection										
		2-wire(current)	3-wire(voltage)							
	Supply+	Α	Α							
	Signal+	В	С							
	Gnd	-	В							









Option1			. 34	V										
PM20G				sure Tran	smitter									
	Option	2: Press	ure Ran	ges										
	0050	05ba	ar		2000	0200ba	r							
	0100	010k	oar		2500 0250bar									
	0160	016k	oar		3000	0300ba	r							
	0250	025k	oar			0400ba								
	0400	040k	oar		5000	0500ba	r							
	0600	060k	oar		6000	0600ba	r							
	1000	0100)bar		Cxxx	Customiz	ed range							
		Option	13: Press	ure Type										
		G	gauge											
		Α	absolu	te										
		-	-											
			Optio	n4: Outp	ut Signa	al								
			42	420m	ıΑ									
			05	05Vd	С				71					
			10	010V	dc									
			45	0.54.	5(ration	netric)								
			-	-										
				Option	15: Accu	ıracy								
				05	0.5%F									
				10	1.0%F									
					Optio	n6: Electi	rical Connection							
					D		tor DIN43650							
					Н	Connec	tor Mini-Hirschman	ın						
					C		d connection							
					М		outlet with PVC-cabl							
							17: Mechanical Coi	nnectio	n					
						M2	M20x1.5(male)	N4	1/4NPT(male)					
						G4	G1/4(male)	U7	7/16-20UNF(male)					
						G2	G1/2(male)	Nx	Customized					
PM20G	0160	G	42	05	D	G4	Examples of Orde	ring Cod	le: PM20G-0160-G-42-05-D-G4					

Model PM210 For High Pressure Applications



Features

- Measuring ranges from 100bar to 6000bar
- Gauge type
- Accuracy: ±0.25%FSO, ±0.5%FSO
- Calibrated and temperature compensated
- Foil strain gauge pressure sensor design
- Fully welded structure, no-ring inside
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM210 metal foil strain gauge pressure transmitter is designed for superior high pressure applications up to 6,000bar. This model provides a very high long-term stability and a very good accuracy. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems, valves and test equipment. 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
- Test equipment

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
0100bar	•		
0250bar	•		
0400bar			
0600bar	•		
01000bar	•		
02500bar	•		
04000bar	•		
05000bar	•		
06000bar	•		

other pressure ranges available. Please consult the factory.

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-100,,6000			bar	1bar=14.	5psi
Overpressure	1.25xFS			bar		
Environmental						
Operating Temperature Range	-40 to +85			°C	-40°F to 1	85°F
Compensated Temperature Range	-10 to +70			°C	14°F to 1	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	257°F
Vibration	10			g	20 to 200	0Hz
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54	5Vdc(ratiometric
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	1536Vdd	5Vdc	
Load Resistance	<(Vs-12)/0.02/	A (For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vd	С				
Physical Specifications						
Media Compatibility	All media comp	oatible with st	ainless steel			
Housing	304 stainless s	teel				
Diaphragm	alloy steel					
Seal Ring	1					
Oil Filling	1					
Protection	IP65					
Net Weight Net Weight	Approx.510g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.02	±0.03	%FS	0/°C	3
Temp Coeff - Span		±0.02	±0.03	%FS	0/°C	3
Long-Term Stability		±0.2	±0.3	%FS	O/year	1

Notes

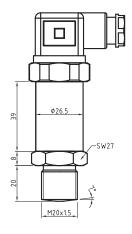
- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

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

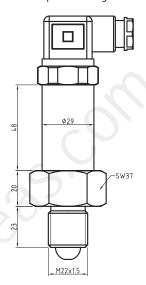


Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Connector M12x1(4-pin)		
_		2-wire(current)	3-wire(voltage)
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1
	Signal+	2	3
	Gnd	-	2



1600bar < pressure ranges ≤ 6000bar



Option1													
PM210	Foil Stra	ain Gaug	e Pressur	e Transmi	tter								
	Option	2: Press	ure Ran	ges									
	1000	0100	Obar		5000	05001b	ar						
	2500	0250	Obar		6000 06001bar								
	4000	0400	Obar		Cxxx	Customiz	ed range						
	6000	0600	Obar										
	1000	0100	00bar										
	2501	0250	00bar										
	4001	0400	00bar										
		Option	n3: Press	ure Type									
		G	gauge										
			Optio	n4: Outp		al							
			42	420m	420mA								
			05		05Vdc								
			15	15Vd	15Vdc								
			10		010Vdc								
			45	0.54.									
				Option									
				02	0.25%								
				05	0.5%								
					_		rical Connection						
					D		ctor DIN43650						
					C		outlet with PVC-cable,length=1.5m						
					М	M12x1							
							7: Mechanical Connection						
						M2	M20x1.5(male) Nx Customized						
						G2	G1/2(male)						
						M22	M22x1.5(male)						
PM210	4000	G	42	02	D	M2	Examples of Ordering Code: PM210-4000-G-42-02-D-M2						

Model PM20T

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

PM20T 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 through heating 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.

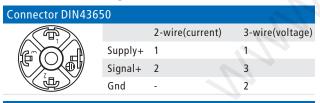
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-0.35,	,600		bar	1bar=14.5	ipsi
Overpressure	1.5xFS			bar		
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)Hz
Shock	100			g	10ms	
Cycles	10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA)5Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdd	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with 31	I 6L stainless s	teel		
Housing	304 stainless ste	eel				
Diaphragm	316L stainless st	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight Net Weight	Approx.355g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
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).

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

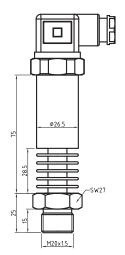


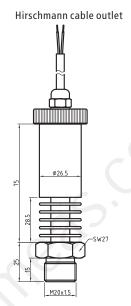
Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Connector M12x1(4	4-pin)		
_		2-wire(current)	3-wire(voltage)
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1
4.002	Signal+	2	3
	Gnd	-	2

Dimensions (in mm)

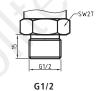






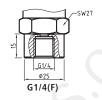
Mechanical Connection (in mm)











Option1:										
PM20T				ire Transm	itter					
	Option		ure Rang	ges						
	N001	-10b	ar		0060	06bar	4000) (0400bar	
	0003	00.3	5bar		0100	010bar	6000) (0600bar	
	0007	00.7			0160	016bar	Cxxx	(Customized range	
	0010	01ba			0250	025bar				
	0016	01.6	bar		0600	060bar				
	0025	02.5	bar		1000	0100bar				
	0040	04ba	ar		2500	0250bar				
		Option	13: Press	ure Type						
		G	gauge							
		Α	absolu ⁻	te						
		S	sealed							
			Option	ո4։ Outpւ	ıt Sign	al				
			42	420m	ıΑ					
			05	05Vd						
			15	15Vd	c					
			10	010V						
			45	0.54.						
				Option						
				02	0.25%					
				05	0.5%					
							ical Connection			
					D		tor DIN43650			
					Н	Hirschm	ann cable outlet,len	gth:	=1.5m	
					-	-				
					-	-				
							7: Mechanical Conn			
						M2	M20x1.5(male)	N1	,	
						G4	G1/4(male)	F4	(/	
						G2	G1/2(male)	N		
PM20T	0010	G	42	02	D	G4	Examples of Ordering	ıg C	Code: PM20T-0010-G-42-02-D-0	G4

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.

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-0.35,	,600		bar	1bar=14.	5psi
Overpressure	1.5xFS			bar		
Environmental						
Medium Temperature Range	0 to +150(stand	ard), $0 \text{ to } +3$	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 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA)5Vdc	15Vdc	010Vdc		
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdc		
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (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

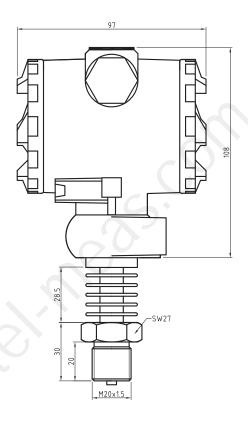
Notes

- 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.

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

Dimensions (in mm)



Option1:	Model										
PM21T	High-Te	mperatu	re Pressu	ıre Transn	nitter						
	Option	2: Press	ure Ran	ges							
	N001	-10b	ar		0060	06bar	400	00	0400bar		
	0003	00.3	5bar		0100	010bar	600	00	0600bar		
	0007	00.7	bar		0160	016bar	Схх	ίX	Customized range		
	0010	01ba	ar		0250	025bar					
	0016	01.6	bar		0600	060bar					
	0025	02.5	bar		1000	0100ba	r				
	0040	04ba	04bar			0250ba	r				
		Option	13: Press	ure Type	<u> </u>						
		G	gauge								
		Α	absolu	te							
	S sealed gauge Option4: Output Signal										
			42	420r	nA						
			05	05Vd							
			15	15Vd	.5Vdc						
			10	010\	10Vdc						
			-	-							
					Option5: Accuracy						
				02	0.25%						
				05	0.5%1						
							ical Connection				
					Т	Termina	al				
						-					
						-					
						-					
							7: Mechanical Con				
						M2	M20x1.5(male)		N1 1/4NPT(male)		
						G4	G1/4(male)		F4 G1/4(female)		
						G2	G1/2(male)		Nx Customized		
PM21T	0010	G	42	02	T	G4	Examples of Order	ing	Code: PM21T-0010-G-42-02-T-G4		

Model PM220

For Aggressive Media Applications



Features

- Measuring ranges from 1.6bar to 25bar
- Gauge type
- Accuracy: ±0.5%FSO
- Calibrated and temperature compensated
- Ceramic pressure sensor design
- Pressure port PVDF
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0.5...4.5V and others

Product Overview

The PM220 pressure transmitters offers the user the high stability of ceramic piezoresistive sensor in a OEM package. The PM220 is developed for applications of processing and control operations involving aggressive media. The compactand rugged design makes these pressure transmitter suitable for applications including process control systems, chemical industry, refrigeration, level measurement and test equipment.

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

Applications

- Process control systems
- Chemical industry
- Hydraulic systems and valve
- Mechanical and plant engineering

Standard Pressure Range

Nominal pressure	gauge	sealed gauge	absolute
01.6bar	•		
02.5bar	•		
04bar			
06bar	•		
010bar	•		
016bar	•		
025bar	•		

other pressure ranges available. Please consult the factory.

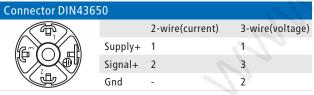
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1.6,,25			bar	1bar=14	.5psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 1	85°F
Compensated Temperature Range	0 to +70			°C	32°F to 1	58°F
Storage Temperature Range	-20 to +125			°C	-4°F to 2	57°F
Vibration	10			g	20 to 200	0Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0	5Vdc	15Vdc	010Vdc	0.54	.5Vdc(ratiometric
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdd	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	tible with ce	eramic			
Housing	304 stainless ste	el				
Diaphragm	Ceramic					
Seal Ring	Viton or NBR					
Oil Filling	1					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight	Approx.175g					
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes
Performance						
Accuracy	0.25	0.5	1.0	%FS	0	1,2
Temp Coeff - Zero		±1.5	±2.0	%FS	0	3
Temp Coeff - Span		±1.5	±2.0	%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. 0° C to 70° C(32°F to 158°F) with reference to 25°C(77°F).

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



Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

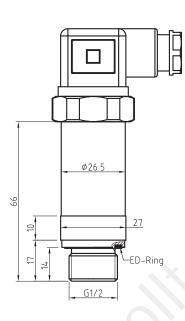
Connector M12x1(4-pin)		
_		2-wire(current)	3-wire(voltage)
3 • • 1 4 • • 2	Supply+	1	1
4.002	Signal+	2	3
	Gnd	-	2

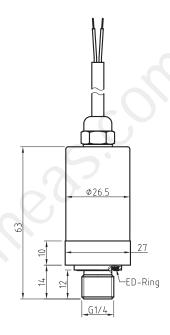
Dimensions (in mm)

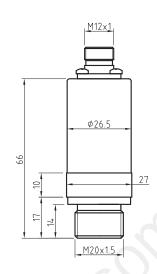
Connector DIN43650

Cable outlet with PVC-cable

M12x1, 4-pin







Option1:												
PM220	Ceramio	Pressu	re Transm	itter								
			ure Ran	ges								
	0016	01.6										
	0025	02.5										
	0040	04b										
	0060	06b										
	0100	010										
	0160	016					XX\/\					
	0250	025										
				ure Type								
		G	gauge									
				n4: Outp		I						
			42		420mA							
			05		05Vdc 15Vdc							
			15									
			10	010V								
			45		.5(ratiom							
					n5: Accu							
				05 10	0.5%F							
				10			rical Connection					
					D		tor DIN43650					
					Н		nann cable outlet,length=1.5m					
					C		outlet with PVC-cable,length=1.5m					
					М	M12x1						
					141		7: Mechanical Connection					
						M2	M20x1.5(male) Nx Customized					
						G4	G1/4(male)					
						G2	G1/2(male)					
PM220	0060	G	42	05	D	G4	Examples of Ordering Code: PM220-0060-G-42-05-D-G4					

Model PM230 For General Industrial Applications



Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

Pm230 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The PM230 is precision engineered to fit most industrial pressure measurement. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-10bar	•	(O)-	
-0.350bar	•		
-0.20bar			
00.1bar	•		
00.2bar	•		
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.

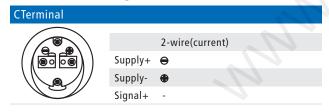
Performance Specifications

Parameter	Value		U	nits	Notes				
General									
Pressure Range	-1-0,,0-0.1,	.,600	ba	ar	1bar=14.5	psi			
Overpressure	1.5xFS	1.5xFS bar							
Environmental									
Operating Temperature Range	-20 to +85		°C		-4°F to 185	5°F			
Compensated Temperature Range	-10 to +70		°C		14°F to 15	8°F			
Storage Temperature Range	-40 to +125		°C		-40°F to 25	57°F			
Vibration	10		g		20 to 2000	Hz			
Shock	100		g		10ms				
Cycles	10x10 ⁶		су	cles					
Electrical @25°C(77°F)									
Output Signal	420mA								
Power Supply(Vs)	1236Vdc	1236Vdc							
Load Resistance	<(Vs-12)/0.02A	(For current o	utput), >10kΩ (For voltage of	output)				
Insulation Resistance	100MΩ@50Vd	С							
Physical Specifications									
Media Compatibility	All media comp	atible with 316	L stainless stee	l					
Electronic Housing	Aluminum alloy	1							
Diaphragm	316L stainless s	teel							
Seal Ring	Viton or NBR								
Oil Filling	Silicone oil								
Protection	IP65								
Net Weight	Approx.425g								
Parameter	Minimum	Typical	Maximum	Units		Notes			
Performance					>0				
Accuracy	0.1	0.25	0.5	%FSO		1,2			
Temp Coeff - Zero		±0.75	±1.5	%FSO		3			
Temp Coeff - Span		±0.75	±1.5	%FSO		3			
Long-Term Stability		±0.2	±0.3	%FSO	/year	1			

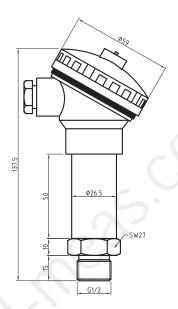
Notes

- 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).

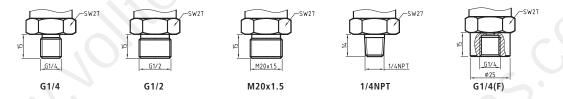
The listed specifications and dimensions are subject to change without prior notice.



Dimensions (in mm)



Mechanical Connection (in mm)



Option1:	Model											
PM230		sistive P	ressure T	ransmitte	r							
	Option	2: Press	ure Ran	ges								
	N001	-10b		-	0016	01.6bar	060	0 0.	60bar			
	N002	-0.35	.0bar		0025	02.5bar	100	0 0.	100bar			
	N003	-0.2	0bar		0040	04bar	250	0 0.	250bar			
	0001	00.1	bar		0060	06bar	400	0 0.	400bar			
	0003	00.3	5bar		0100	010bar	600	0 0.	600bar			
	0007	00.7	bar		0160	016bar	Схх	x Cı	ustomized range			
	0010	01ba			0250	025bar						
		Option	13: Press	ure Type								
		G	gauge									
		Α	absolu									
		S	sealed									
					put Signal							
			42	420r	nA							
			-	-								
					n5: Accı							
				02	0.25%							
				05	0.5%F							
					_		ical Connection					
					Т	Termina	al					
					-	-						
						_	7: Mechanical Con					
						M2	M20x1.5(male)	N1	1/4NPT(male)			
						G4	G1/4(male)	F4	G1/4(female)			
				0.2	_	G2	G1/2(male)	Nx	Customized			
PM230	0010	G	42	02	T	G4	Examples of Orderi	ing Co	de: PM230-0010-G-42-02-T-G4			

Model PM240 For Air Compressors



Features

- Measuring ranges from 1bar to 400bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.5%FSO or ±1%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM240 pressure transmitter has been disigned for use in air compressors and compressed air stations. With measuring ranges from 0...1 to 0...400bar. The PM240 is precision engineered to fit most industrial pressure measurement. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, air compressors.

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

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-10bar	•	(O)-	
01bar	•		•
01.6bar			•
02.5bar	•		•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	
0250bar		•	
0400bar		•	

Other pressure ranges available. Please consult the factory.

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- For air compressors

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	-1-0,,0-1,,	400		bar	1bar=14.	5psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	35°F
Compensated Temperature Range	-10 to +70			°C	14°F to 1	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	257°F
Vibration	10			g	20 to 200	0Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.	5Vdc(ratiometric
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	1536Vdd	5Vdc	
Load Resistance	<(Vs-12)/0.02	A (For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vd	С				
Physical Specifications						
Media Compatibility	All media comp	oatible with 3°	16L stainless s	teel		
Housing	304 stainless s	teel				
Diaphragm	316L stainless	steel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65					
Net Weight Net Weight	Approx.125g					
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes
Performance			'			
Accuracy	0.2	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3
Temp Coeff - Span		±0.75	±1.5	%FS	0	3
Long-Term Stability		±0.2	±0.3	%FS	O/year	1

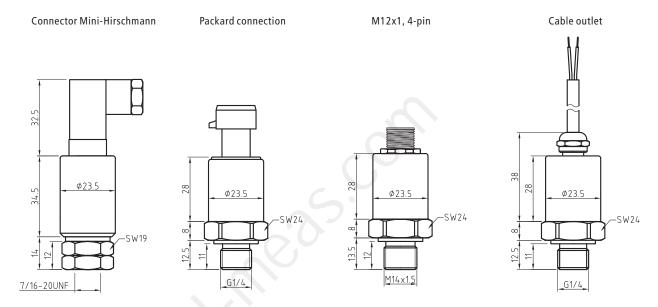
Notes

- 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.

Connector DIN4365	50			Cable outlet			
		2-wire(current)	3-wire(voltage)			2-wire(current)	3-wire(voltage)
	Supply+	1	1		Supply+	red	red
	Signal+	2	3		Signal+	black	green
	Gnd	-	2		Gnd	-	black
Packard Connection	n			Connector M12x1(4	4-pin)		
		2-wire(current)	3-wire(voltage)			2-wire(current)	3-wire(voltage)
	Supply+	Α	Α	3 ● 1	Supply+	1	1
	Signal+	В	С	4 • 2	Signal+	2	3
	Gnd	-	В		Gnd	-	2

Dimensions (in mm)



Option1:												
PM240				ransmitte	r							
			ure Ran	ges								
	N001	-10b				016bar						
	0010	01ba	ar		0250	025bar						
	0016	01.6				060bar						
	0025	02.5				0100ba						
	0040	04ba				0250ba	•					
	0060	06ba	ar		4000	0400ba	r					
	0100	010k				Customiz	ed range					
		Option	13: Press	ure Type								
		G	gauge									
		Α	absolu									
		S	sealed						<u> </u>			
					n4: Output Signal							
			42	420n								
			05	05Vd								
			15	15Vd	-							
			10	010V								
			45		5(ration							
					15: Accu							
				05	0.5%F							
				10	1.0%F							
							ical Connection					
					Н		tor Mini-Hirschman	n				
					M	M12x1						
					Р		d connection					
					C		utlet with PVC-cable					
							7: Mechanical Con					
						M2	M20x1.5(male)	N4	1/4NPT(male)			
						G4	G1/4(male)	U7	7/16-20UNF(male)			
						G2	G1/2(male)	Nx	Customized			
PM240	0160	G	42	05	H	G4	Examples of Order	ing Cod	le: PM240-0160-G-42-05-H-G4			

Model PM241 For Air Compressors



Features

- Measuring ranges from 5bar to 100bar
- Absolute, gauge
- Accuracy: ±0.5%FSO or ±1.0%FSO
- Calibrated and temperature compensated
- Stainless steel mono-block construction
- Advanced microfused silicon strain gauge
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

The PM241 is based on MEMS technology (microelectromechanical system). Through high temperature, silicon strain gauge is sintered on 17-4PH stainless steel sensor elastomer, which is integrated with the pressure connector.

This model provides a very high long-term stability. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration Other pressure ranges available. Please consult the factory. HVAC controls and air compressors.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Air compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
05bar	•		•
010bar	•		•
016bar			•
025bar	•		•
040bar	•		•
060bar	•		•
0100bar	•		•

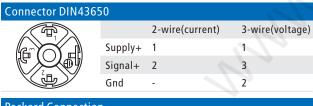
Performance Specifications

Parameter	Value			Units	Notes		
General							
Pressure Range	0-5,,100			bar	1bar=14.	5psi	
Overpressure	3xFS		bar				
Environmental							
Operating Temperature Range	-20 to +85			°C	35°F		
Compensated Temperature Range	-20 to +85			°C	-4°F to 185°F		
Storage Temperature Range	-40 to +105			°C	-40°F to 221°F		
Vibration	20			g	20 to 2000Hz		
Shock	100			g	10ms		
Cycles	10x10 ⁶			cycles			
Electrical @25°C(77°F)							
Output Signal	420mA 05Vdc 010Vdc			0.54.5Vdc(ratiometric)			
Power Supply(Vs)	930Vdc 9.	930Vdc 930Vdc 1530Vdc 5Vdc					
Load Resistance	$<$ (Vs-12)/0.02A (For current output), $>$ 10k Ω (For voltage output)						
Insulation Resistance	100MΩ@50Vdc						
Physical Specifications							
Media Compatibility	All media compatible with 17-4PH stainless steel						
Housing	304 stainless stee	304 stainless steel					
Diaphragm	17-4PH stainless	17-4PH stainless steel					
Seal Ring	1	1					
Oil Filling	1						
Protection	IP65	IP65					
Net Weight	Approx.220g						
Parameter	Minimum	Typical	Maxim	um Unit	is S	Notes	
Performance							
Accuracy		0.5	1.0	%FS	0	1,2	
Temp Coeff - Zero	±0.02 ±0.03		±0.03	±0.03 %FSO/°C		3	
Temp Coeff - Span		±0.02	±0.03	%FS	0/°C	3	
Long-Term Stability		±0.3	±0.5	%FS	0/year	1	

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -20°C to 85°C(-4°F to 185°F) with reference to 25°C(77°F).

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

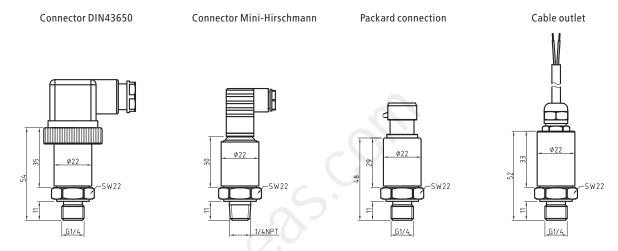


Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

Packard Connection						
		2-wire(current)	3-wire(voltage)			
	Supply+	Α	Α			
	Signal+	В	C			
	Gnd	-	В			

Silicon Strain Gauge Pressure Transmitter

Dimensions (in mm)



Option1			_ X						
PM241			Gauge Pressure Transmitter						
	Option	n2: Pressure Ranges							
	0050	05b	ar		Cxxx	Customize	ed range		
	0100	010	bar						
	0160	016	bar	par					
	0250	025							
	0400	040							
	0600	060	bar						
	1000	010	0bar						
		Optio	n3: Press	ure Type					
		G	gauge						
		Α	absolu	te					
		-	-						
		Option4: Output Signal							
	42 420mA								
			05	05 05Vdc					
			10 010Vdc						
			45	45 0.54.5(ratiometric)					
			-	-					
					15: Accu				
				05	0.5%FS				
				10	1.0%FS				
					-		ical Connection		
					D		tor DIN43650		
					Н		tor Mini-Hirschmanr	1	
				C Packard connection					
				M Cable outlet with PVC-cable, length=1.5m					
							7: Mechanical Con		
						M2	M20x1.5(male)	N4	1/4NPT(male)
						G4	G1/4(male)	U7	7/16-20UNF(male)
					_	G2	G1/2(male)	Nx	Customized
PM241	0160	G	42	05	D	G4	Examples of Orderi	ng Cod	e: PM241-0160-G-42-05-D-G4

Model PM250

For Refrigeration & Compressor Industry



Features

- Measuring ranges from 5bar to 600bar
- Absolute, gauge
- Accuracy: ±0.5%FSO or ±1.0%FSO
- Calibrated and temperature compensated
- Stainless steel mono-block construction
- Advanced microfused silicon strain gauge
- Variety of Pressure & Electrical connectionsOutput 4...20mA,0...10V,0...5V and others

Product Overview

The PM250 is based on MEMS technology (microelectromechanical system). Through high temperature, silicon strain gauge is sintered on 17-4PH stainless steel sensor elastomer, which is integrated with the pressure connector.

This model provides a very high long-term stability. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration HVAC controls and air compressors.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Air compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
05bar	•		•
010bar	•		•
016bar			•
025bar	•		•
040bar	•		•
060bar	•		•
0100bar	•		•
0160bar	•		•
0200bar	•		•
0250bar	•		•
0300bar	•		•
0400bar	•		•
0500bar	•		•
0600bar	•		•

Other pressure ranges available. Please consult the factory.

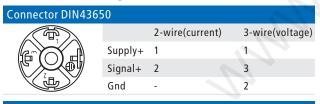
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-5,,600			bar	1bar=14.5	psi
Overpressure	2xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-40°F to 1	85°F
Compensated Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Storage Temperature Range	-40 to +105			°C	-40°F to 2	21°F
Vibration	20			g	20 to 2000)Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0	5Vdc	010Vdc	0.54.5Vd	dc(ratiometri	ic)
Power Supply(Vs)	930Vdc 9	30Vdc	1530Vdc	5Vdc		
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltag	e output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	tible with 17	7-4PH stainles	s steel		
Housing	304 stainless ste	el				
Diaphragm	17-4PH stainless	steel				
Seal Ring	1					
Oil Filling	1					
Protection	IP65					
Net Weight	Approx.220g					
Parameter	Minimum	Typical	Maxim	um Uni	ts	Notes
Performance					00	
Accuracy		0.5	1.0	%F	50	1,2
Temp Coeff - Zero		±0.02	±0.03	%FS	50/°C	3
Temp Coeff - Span		±0.02	±0.03	%F5	50/°C	3
Long-Term Stability		±0.3	±0.5	%F5	50/year	1

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -20°C to 85°C(-4°F to 185°F) with reference to 25°C(77°F).

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

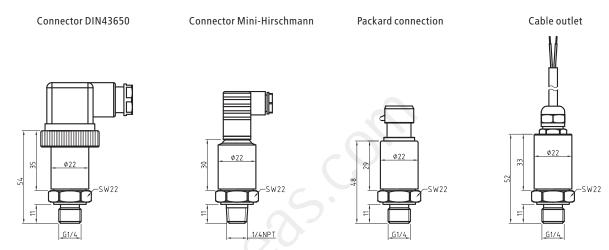


Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Packard Connection	n		
		2-wire(current)	3-wire(voltage)
	Supply+	Α	Α
	Signal+	В	С
	Gnd	-	В

Silicon Strain Gauge Pressure Transmitter

Dimensions (in mm)



Option1				V								
PM250			auge Pressure Transmitter									
			ure Ran	ges								
	0050	05ba	ar		2000	0200ba						
	0100	010			2500	0250ba						
	0160	016			3000	0300ba						
	0250	025		4000 0400bar								
	0400	040			5000	0500ba						
	0600	060			6000	0600ba						
	1000		100bar Cxxx Customized range									
		Option3: Pressure Type										
		G gauge										
		A absolute										
		-	· ·									
			Option4: Output Signal									
			42	420n	** *							
			05	05Vd	-							
			10	010V								
			45		5(ration	netric)			<u> </u>			
			-	-								
					15: Accı							
				05	0.5%F							
				10	1.0%F		ical Connection					
					D		tor DIN43650					
					Н		tor Din43650 tor Mini-Hirschmann					
					С		connection					
					M		utlet with PVC-cable,	امممدا	. 1 F			
					IVI		atiet with PVC-cable, 7: Mechanical Conn					
						M2	M20x1.5(male)	N4	1/4NPT(male)			
		G4 G1/4(male) U7 7/16-20UNF(male)										
						G2	G1/4(male)	Nx	Customized			
DM2E0	0160	G	42	05	D	G2 G4			le: PM250-0160-G-42-05-D-G4			
PM250	0160	G	42	05	T D	04	Lxamples of Orderin	ig Cou	le. FM230-0100-0-42-03-D-04			

Model PM260

For Engineering Machinery Industry



Features

- Measuring ranges from 1bar to 1500bar
- Absolute, gauge
- Accuracy: ±0.5%FSO or ±1.0%FSO
- Calibrated and temperature compensated
- Stainless steel mono-block construction
- Advanced microfused silicon strain gauge
- Variety of Pressure & Electrical connectionsOutput 4...20mA,0...10V,0...5V and others

Product Overview

The PM260 is based on MEMS technology (microelectromechanical system). Through high temperature, silicon strain gauge is sintered on 17-4PH stainless steel sensor elastomer, which is integrated with the pressure connector.

This model provides a very high long-term stability. The transmitter is featured with no O-ring, free of leakage risks. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, Engineering Machine.

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

Applications

- Process control systems
- Engineering machine
- Test equipment
- Valves

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01bar	•	(0)	•
02.5bar	•		•
04bar			•
06bar	•		•
010bar	•		•
016bar	•		•
025bar	•		•
040bar	•		•
060bar	•		•
0100bar	•		•
0160bar	•		•
0200bar	•		•
0250bar	•		•
0300bar	•		•
0400bar	•		•
0500bar	•		•
0600bar	•		•
0750bar	•		•
01000bar	•		•
01500bar	•		•

Other pressure ranges available. Please consult the factory.

Silicon Strain Gauge Pressure Transmitter

Performance Specifications

Parameter	Value			Units	Notes		
General							
Pressure Range	0-1,,1500			bar	1bar=14.	5psi	
Overpressure	2xFS			bar			
Environmental							
Operating Temperature Range	-20 to +85			°C	-4°F to 18	35°F	
Compensated Temperature Range	-20 to +85			°C	-4°F to 18	35°F	
Storage Temperature Range	-40 to +105			°C	-40°F to 2	221°F	
Vibration	20			g	20 to 200	0Hz	
Shock	100			g	10ms		
Cycles	10x10 ⁶			cycles			
Electrical @25°C(77°F)							
Output Signal	420mA 0.	5Vdc	010Vdc	0.54.5Vd	c(ratiomet	ric)	
Power Supply(Vs)	930Vdc 9.	30Vdc	1530Vdc	5Vdc	5Vdc		
Load Resistance	<(Vs-12)/0.02A (I	For current	output), >10k	Ω (For voltage	output)		
Insulation Resistance	100MΩ@50Vdc						
Physical Specifications							
Media Compatibility	All media compat	ible with 17	7-4PH stainless	steel			
Housing	304 stainless stee	el .					
Diaphragm	17-4PH stainless	steel					
Seal Ring	1						
Oil Filling	1						
Protection	IP65						
Net Weight	Approx.250g						
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes	
Performance			'				
Accuracy		0.5	1.0	%FS	0	1,2	
Temp Coeff - Zero		±0.02	±0.03	%FS	O/°C	3	
Temp Coeff - Span		±0.02	±0.03	%FS	O/°C	3	
Long-Term Stability		±0.3	±0.5	%FS	O/year	1	

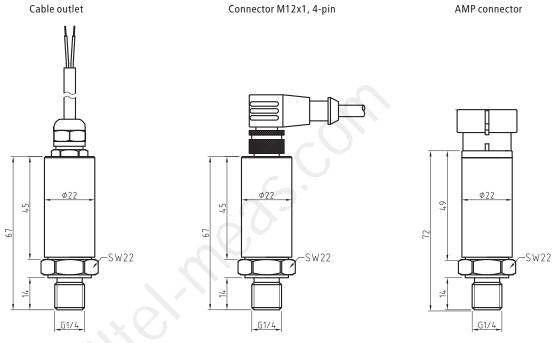
Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -20°C to 85°C(-4°F to 185°F) with reference to 25°C(77°F).

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

	.ag.a						
Connector DIN4365	50			Cable outlet			
		2-wire(current)	3-wire(voltage)			2-wire(current)	3-wire(voltage)
	Supply+	1	1		Supply+	red	red
	Signal+	2	3		Signal+	black	green
	Gnd	-	2		Gnd	-	black
Packard Connection	n			AMP Connector			
		2-wire(current)	3-wire(voltage)			2-wire(current)	3-wire(voltage)
	Supply+	Α	Α		Supply+	3	3
	Signal+	В	С		Signal+	2	1
	Gnd	-	В		Gnd	-	2

Dimensions (in mm)



Option1:										
PM260				sure Tran	smitter					
			ure Ran	ges	0400					
	0010					040bar		4000	0400bar	
	0025	02.5	bar		0600	060bar		5000	0500bar	
	0040	04ba			1000	0100ba		6000	0600bar	
	0060	06ba			1600	0160ba	-	7500	0750bar	
	0100	010k			2000	0200ba		1001	01000bar	
	0160	016k			2500	0250ba		1501	01500bar	
	0250	025k			3000	0300ba	r	Cxxx	Customized range	
			n3: Press	ure Type						
		G	gauge							
		Α	absolu	te						
		-	-							
				n4: Outp						
			42							
			05							
			10	010V						
			45	0.54.	5(ration	netric)				
			-	-			1 3			
					15: Accı	-	•			
				05	0.5%F					
				10	1.0%					
							ical Connectio	n		
					Α		nnector			
					M		tor M12x1, 4-pi	n		
					P		connection			
					C		utlet with PVC-c		ength=1.5m	
					Н		tor Mini-Hirschr			
							7: Mechanical			
						M2	M20x1.5(male	,	N4 1/4NPT(male)	
						G4	G1/4(male)		U7 7/16-20UNF(male)	
						G2	G1/2(male)		Nx Customized	
PM260	0160	G	42	05	M	G4	Examples of O	rdering	Code: PM260-0160-G-42-05-M-G4	

Model PM300 Food and Beverage Industry



Features

- Measuring ranges from 1bar to 100bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM300 is made from high-quality silicon piezoresistive chip. All process connections of the fush pressure transmitter are made of stainless steel, fully welded and isolate the process medium from the pressure measuring instrument via a positive seal. The PM300 is precision engineered to fit food, pharmaceutical and chemical liquid pressure measurement.

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

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01bar	•		•
01.6bar	•		•
02.5bar			•
04bar	•		•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	

Other pressure ranges available. Please consult the factory.

- Process control systems
- Food and beverage
- Medical
- Papermaking

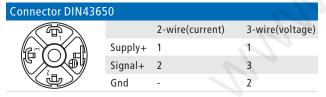
Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1,,100			bar	1bar=14.5	5psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85(stand	dard), -20 to	+150	°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000	OHz
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0	5Vdc	15Vdc	010Vdc	0.54.	5Vdc(ratiometric
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	tible with 31	6L stainless s	teel		
Housing	304 stainless ste	eel				
Diaphragm	316L stainless st	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard)					
Net Weight	Approx.285g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					7 U	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±1.5	±2	%FS	0	3
Temp Coeff - Span		±1.5	±2	%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.

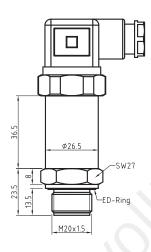


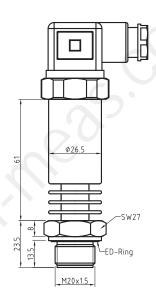
Cable outlet				
		2-wire(current)	3-wire(voltage)	
,	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

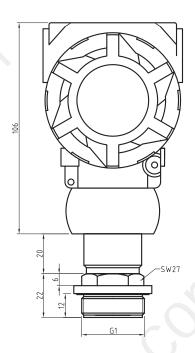
Flush Diaphragm Pressure Transmitter

Dimensions (in mm)

Connector DIN43650 Operating Temperature Range -40 to +85°C Connector DIN43650 Operating Temperature Range -40 to +150°C 2088 housing Operating Temperature Range -40 to +85°C







Option1:												
PM300	Flush Diaphragm Pressure Transmitter Option2: Pressure Ranges											
		2: Press	ure Rang	ges								
	0010	01ba	r		0250	025bar						
	0016	01.6				040bar						
	0025	02.5	bar		0600	060bar						
	0040	04ba	r			0100ba						
	0060	06ba			Cxxx	Customize	ed range					
	0100	010bar										
	0160	016bar										
		Option3: Pressure Type										
		G	G gauge									
		Α	absolu sealed									
		S										
				n4: Outp		ıl						
				42	420n							
			05	05Vc								
			15	15Vc								
			10	010V								
			45		0.54.5(ratiometric)							
					n5: Accu							
				02	0.25%							
				05	0.5%F							
					-		ical Connection					
					DL		or DIN43650, Operating Temperature Range:-40 to +85°C					
					DH		or DIN43650, Operating Temperature Range:-40 to +150°C					
					Н	2088 ho	using, Operating Temperature Range:-40 to +85°C					
					-	-						
							7: Mechanical Connection					
						M2	M20x1.5(male) N2 1/2NPT(male)					
						G2	G1/2(male) Nx Customized					
211224	0010		40	0.2	-	G10	G1(male)					
PM300	0010	G	42	02	D	G2	Examples of Ordering Code: PM300-0010-G-42-02-D-G2					

Model PM310 Food and Beverage Industry



Features

- Measuring ranges from 1bar to 100bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

PM310 is made from high-quality silicon piezoresistive chip. All process connections of the fush pressure transmitter are made of stainless steel, fully welded and isolate the process medium from the pressure measuring instrument via a positive seal. The PM310 is precision engineered to fit food, pharmaceutical and chemical liquid pressure measurement.

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

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01bar	•		•
01.6bar	•		•
02.5bar			•
04bar			•
06bar	•		•
010bar	•	•	•
016bar	•	•	•
025bar	•	•	
060bar		•	
0100bar		•	

Other pressure ranges available. Please consult the factory.

- Process control systems
- Food and beverage
- Medical
- Papermaking

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1,,100			bar	1bar=14.	5psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85(stand	dard), -20 to	+150	°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	58°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	:57°F
Vibration	10			g	20 to 200	0Hz
Shock	100			g	10ms	
Cycles	10x10⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0)5Vdc	15Vdc	010Vdc	0.54.	5Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdc		
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	atible with 31	I 6L stainless s	teel		
Housing	304 stainless ste	eel				
Diaphragm	316L stainless st	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard)					
Net Weight Net Weight	Approx.285g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance						
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±1.5	±2	±2 %FS		3
Temp Coeff - Span		±1.5	±2	%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.

Connector DIN4365	50		
		2-wire(current)	3-wire(voltage)
	Supply+	1	1
	Signal+	2	3
	Gnd	-	2

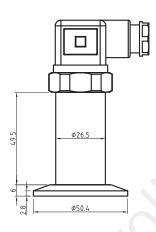
Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

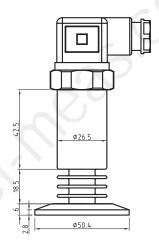
Dimensions (in mm)

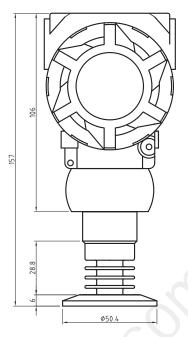
Connector DIN43650 Operating Temperature Range -20 to +85°C

Connector DIN43650 Operating Temperature Range -20 to +150°C









Option1:			- D	. T '							
PM310	Flush Diaphragm Pressure Transmitter Option2: Pressure Ranges										
			•								
	0010	01ba				025bar					
	0016	01.6				040bar					
	0025	02.5				060bar					
	0040	04ba				0100ba					
	0060	06ba			Cxxx	Customiz	ed range				
	0100	010									
	0160		.16bar								
		Option3: Pressure Type									
		G	G gauge								
		Α	absolu	te							
		S	sealed								
			Option4: Output Signal								
			42 420mA								
			05	05Vdc							
			15	15Vd	15Vdc 010Vdc						
			10								
			45	0.54.5(ratiometric)							
				Option5: Accuracy							
				02	0.25%	FSO					
				05	0.5%F	SO					
					Optio	n6: Electr	rical Connection				
					DL	Connect	or DIN43650, Operating Temperature Range:-20 to +85°C				
					DH	Connect	or DIN43650, Operating Temperature Range:-20 to +150°C				
					Н	2088 ho	using, Operating Temperature Range:-20 to +150°C				
					-	-					
						Option	7: Mechanical Connection				
						K2	2 inch clamp flange interface(Ø50.4mm)				
						K25	2.5 inch clamp flange interface(Ø64mm)				
						Nx	Customized				
PM310	0010	G	42	02	DL	G2	Examples of Ordering Code: PM310-0010-G-42-02-D-K2				



Model PM400 With Display For Field Applications



Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- 3-1/2 digits LCD indicator
- Piezoresistive pressure sensor design
- Variety of Pressure connections
- Output 4...20mA

Product Overview

PM400 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. Equipped with an digits dispaly, PM400 provide an easy solution for field testing applications. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressur	e gauge	sealed gauge	absolute
-10bar	•		
-0.350bar	•		
-0.20bar			
00.1bar	•		
00.2bar	•		
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.

Performance Specifications

Parameter	Value			Units	Notes			
General								
Pressure Range	-1-0,,0-0.1,,	,600	bar	1bar=14.5	ipsi			
Overpressure	1.5xFS			bar				
Environmental								
Operating Temperature Range	-20 to +85			°C	-4°F to 18!	5°F		
Compensated Temperature Range	-10 to +70			°C	14°F to 15	8°F		
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F		
Vibration	10			g	20 to 2000	Hz		
Shock	100			g	10ms			
Cycles	10x10 ⁶			cycles				
Electrical @25°C(77°F)								
Output Signal	420mA							
Power Supply(Vs)	1236Vdc							
Load Resistance	<(Vs-12)/0.02A	(For current outpu	ut)					
Insulation Resistance	100MΩ@50Vdc	:						
Physical Specifications								
Media Compatibility	All media compa	atible with 316L st	tainless ste	eel				
Housing	304 stainless ste	eel						
Diaphragm	316L stainless st	teel						
Seal Ring	Viton or NBR							
Oil Filling	Silicone oil							
Protection	IP65(Standard),	IP66(only for cab	le outlet)					
Net Weight	Approx.285g							
Parameter	Minimum	Typical	Maximu	m Unit	is .	Notes		
Performance					00			
Accuracy	0.1	0.25	0.5	%FS	0	1,2		
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3		
Temp Coeff - Span		±0.75	±1.5	%FS	0	3		
Long-Term Stability		±0.2	±0.3	%FS	O/year	1		

Notes

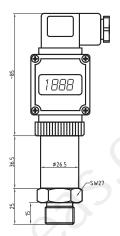
- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

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

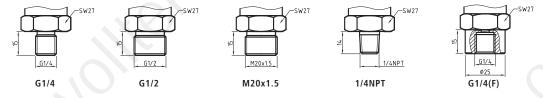
Connector DIN4365	50		
		2-wire(current)	3-wire(voltage)
	Supply+	1	1
	Signal+	2	3
	Gnd	-	2

Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Dimensions (in mm)



Mechanical Connection (in mm)



Option1:	Model										
PM400				ansmitte	r						
	Option	2: Pressi	ure Rang	jes							
	N001	-10b				01.6bar)60bar		
	N002	-0.35				02.5bar	100)100bar		
	N003	-0.20				04bar	250)250bar		
	0001	00.11				06bar	400		400bar		
	0003	00.3!				010bar	600		600bar		
	0007	00.71				016bar	Cxx	x C	Customized range		
	0010	01ba	•			025bar					
		Option3: Pressure Type									
		G	gauge								
		Α		absolute							
		S	5 Starta gaage								
				n4: Output Signal							
			42	420n	JmA						
			-	-							
					n5: Accu						
				02	0.25%						
				05	0.5%F		:!				
							ical Connection	J::4.	- LCD :- dit		
					M1 M2		tor DIN43650,3-1/2 tor DIN43650,3-1/2	_			
					IVIZ	Connec	TOT DIN43650,3-1/2	aigits	S LED INDICATOR		
					-	-					
						Option	7: Mechanical Con	necti	ion		
						M2	M20x1.5(male)	N1			
						G4	G1/4(male)	F4			
						G2	G1/2(male)	Nx			
PM400	0010	G	42	02	M1	G4		ina Co	ode: PM400-0010-G-42-02-M1-G4		

Model PM410 Smart Pressure Transmitters



Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Digits LCD indicator
- Piezoresistive pressure sensor design
- Variety of Pressure connections
- Output 4...20mA

Product Overview

PM410 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. Equipped with an digits dispaly, PM400 provide an easy solution for field testing applications. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Applications

- Process control systems
- Petroleum industry
- Hydraulic systems and valve
- Machine building
- Chemical industry

Standard Pressure Ranges

Nominal pressure	gauge	sealed gau	ge absolute
-10bar	•		
-0.350bar	•		
-0.20bar			
00.1bar	•		
00.2bar	•		
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.

Performance Specifications

Parameter	Value		Un	its	Notes	
General						
Pressure Range	-1-0,,0-0.1,	,600	bar		1bar=14.5p	si
Overpressure	1.5xFS		bar			
Environmental						
Operating Temperature Range	-20 to +85		°C		-4°F to 185°	'F
Compensated Temperature Range	-10 to +70		°C		14°F to 158	°F
Storage Temperature Range	-40 to +125		°C		-40°F to 257	′°F
Vibration	10		g		20 to 2000H	Z
Shock	100		g		10ms	
Cycles	10x10 ⁶		сус	les		
Electrical @25°C(77°F)						
Output Signal	420mA	420mA with HART	420mA	with RS485	-MODBUS	
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vd	lc		
Load Resistance	<(Vs-12)/0.02A	(For current output)			
Insulation Resistance	100MΩ@50Vd					
Physical Specifications						
Media Compatibility	All media comp	atible with 316L sta	inless steel			
Electronic Housing	Aluminum alloy	•				
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard)					
Net Weight Net Weight	Approx.1.2kg					
Parameter	Minimum	Typical	Maximum	Units		Notes
Performance					70"	
Accuracy	0.1	0.25	0.5	%FSO		1,2
Temp Coeff - Zero		±0.75	±1.5	%FSO	\	3
Temp Coeff - Span		±0.75	±1.5	%FSO		3
Long-Term Stability		±0.2	±0.3	%FSO	/year	1

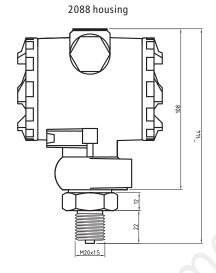
Notes

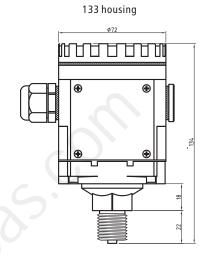
- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

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

Terminal		
		2-wire(current)
	Supply+	Α
	Supply+ Signal+	В
	-	-
	-	-
والما		

Dimensions (in mm)





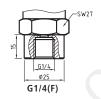
Mechanical Connection (in mm)











Option1:	Model											
PM410	Piezores	sistive Pr	essure Tr	ansmitte	r							
	Option	2: Press	ure Rang	jes								
	N001	-10b	ar		0016	01.6bar	. 0	600	060bar			
	N002	-0.35	.0bar		0025	02.5bar	· 1	000	0100bar			
	N003	-0.20)bar		0040	04bar	2	500	0250bar			
	0001	00.1	bar		0060	06bar	4	000	0400bar			
	0003	00.3	5bar		0100	010bar	6	000	0600bar			
	0007	00.7	bar		0160	016bar	C	XXX	Customized range			
	0010	01ba	r		0250	025bar						
		Option	3: Press	ure Type	1							
		G	gauge									
		Α	absolut	te								
		S sealed gauge										
			Option	ո4։ Outp	tput Signal							
			42	420r	nA							
			42H	420r	nA with H	ART						
			42R			S485-MO	DBUS					
				Optio	n5: Accu	racy						
				02	0.25%F	SO						
				05	0.5%FS	-						
							ical Housing					
					2088		9					
					133	133 ho	using					
					-	-						
							7: Mechanical C					
						M2	M20x1.5(male)		N1 1/4NPT(male)			
						G4	G1/4(male)		F4 G1/4(female)			
						G2	G1/2(male)		Nx Customized			
PM410	0010	G	42	02	2088	G4	Examples of Ord	lering	g Code: PM410-0010-G-42-02-2088-G4			

Model DPM500

For Differential Pressure Measurement



Features

- Measuring ranges from 200mbar to 25bar
- Differential pressure
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

DPM500 is made from high-quality silicon piezoresistive differential pressure sensor. The piezoresistive sensor is packaged in stainless steel housing. The DPM500 is precision engineered to fit most industrial differential pressure measurement. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

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

Standard Pressure Ranges

Nominal pressure	differential
00.2bar	^ (0)
00.35bar	• 1
00.7bar	
01bar	•
01.6bar	•
02.5bar	•
04bar	•
06bar	•
010bar	•
016bar	•
025bar	•

Other pressure ranges available. Please consult the factory.

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

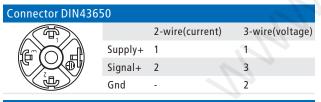
Performance Specifications

Parameter	Value			Units	Notes	
General			,			
Pressure Range	0-0.2,,25			bar	1bar=14.5	ipsi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000	Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA)5Vdc	15Vdc	010Vdc	0.54.!	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with 31	6L stainless s	teel		
Housing	304 stainless ste	eel				
Diaphragm	316L stainless s	teel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP65(Standard),	IP66(only fo	r cable outlet)			
Net Weight	Approx.385g					
Parameter	Minimum	Typical	Maxim	um Unit	s	Notes
Performance					7 U	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3
Temp Coeff - Span		±0.75	±1.5	%FS0	0	3
Long-Term Stability		±0.2	±0.3	%FS0	0/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.

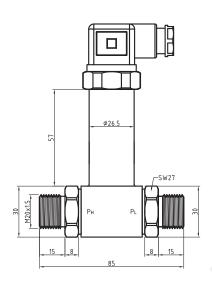


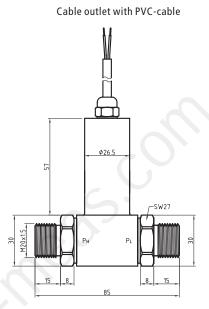
Cable outlet				
		2-wire(current)	3-wire(voltage)	
	Supply+	red	red	
	Signal+	black	green	
	Gnd	-	black	

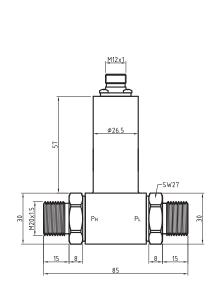
Connector M12x1(4-pin)											
		2-wire(current)	3-wire(voltage)								
$\begin{pmatrix} 3 & \bullet & 1 \\ 4 & \bullet & 2 \end{pmatrix}$	Supply+	1	1								
4. • 2	Signal+	2	3								
	Gnd	-	2								

Dimensions (in mm)

Connector DIN43650







M12x1, 4-pin

Option1:	Model											
DPM500	Piezore	sistive D	ifferentia	al Pressur	e Transn	nitter						
	Option	ption2: Pressure Ranges										
	0002	00.2	bar		0060	06b						
	0003	00.3	5bar		0100	010)bar					
	0007	00.7	bar		0160	016	bar					
	0010	01ba	ar		0250	025	bar					
	0016	01.6			Cxxx	Custo	mized	d range				
	0025	02.5	bar									
	0040	04ba										
				ure Type								
		D	differe	ntial								
		-	-									
		-	-									
				ption4: Output Signal								
			42	420n								
			05		05Vdc							
			15	15Vd	-							
			10	010V								
			45		5(ratio							
					15: Acc							
				02	0.25%							
				05	0.5%l			1.5				
								cal Connection				
					D			or DIN43650				
					Н			ann cable outlet, le				
					C			tlet with PVC-cable	e,length	n=1.5m		
					M		2x1, 4					
								: Mechanical Con				
								M20x1.5(male)	N1	1/4NPT(male)		
								G1/4(male)	F4	G1/4(female)		
DD14500	0048		42	0.2	-			G1/2(male)	Nx	Customized		
DPM500	0010	D	42	02	D		34	Examples of Order	ing Cod	e: DPM500-0010-D-42-02-D-G4		

Model DPM510

For Differential Pressure Measurement



Features

- Suitable for measurement of differential pressure, gauge pressure, absolute pressure.
- Accuracy: ±0.1%FSO, ±0.2%FSO, ±0.5%FSO
- Calibrated and temperature compensated
- Metal capactive pressure sensor design
- Support FF H1, Profibus PA and HART protocols
- Excellent long-term stability

Product Overview

DPM510 is made from high-quality metal capacitive differential pressure sensor. The DPM510 series smart transmitter is suitable for measuring flow, liquid level and pressure(differential pressure, gauge pressure and absolute pressure). Smart pressure transmitter is mircoprocessor-based pressure-sensing instrument, it have high performance and reliability with the flexibility of digital electronics.

Standard Pressure Ranges

Code	Nominal pressure	SG	SD	SA	SH
2	0.031.5kPa		•		
3	0.0757.5kPa	•	•		•
4	0.37437.4kPa	•	•	•	•
5	1.86186.8kPa	•	•	•	•
6	6.9690kPa	•	•	•	•
7	20.682068kPa	•	•	•	•
8	68.96890kPa	•	•	•	
9	206.820680kPa	•			
0	413.741370kPa	•			

SG: gauge pressure

SD: differential pressure

SA: absolute pressure

SH: high static pressure

- Process control systems
- Chemical industry
- Energy industry
- Machine building

Performance Specifications

Parameter	Value	Notes
General Parameter		
Output Signal	Analog: 4~20mA(2 wire)	
	Digital: HART, FF and PA signal	
Power Supply(Vs)	932Vdc(FF,PA)	
	932Vdc (FF, PA Explosion-proof instrument)	
	11.942Vdc (HART)	
	11.930Vdc (HART Explosion-proof instrument)	
Load Resistance	0~1500ohm (common),250~550ohm (with HART)	
Display	5 bits characters LCD display	
Start Time	<5 seconds	
Refresh Time	0.2 seconds	
Dump Adjusting	0.2~15 seconds	
Operating Temperature Range	-40 to +85°C (no display)	
, , , ,	-20 to +70°C (with display)	
	-30 to +60°C (Explosion-proof)	
Storage Temperature Range	-40 to +100°C (no display)	
otorage remperature mange	-40 to +85°C (with display)	
Media Temperature Range	-40 to +104°C (silicone oil)	
Wedia remperature nange	-18 to +71°C (inert liquid)	
Humidity Scale	5%~100%RH	
Static Pressure Limit	SD: 6.89MPa(for range2)	
Static Messure Limit	SD: 13.8MPa(for range3,4,5,6,7,8)	
	SH: 31.0MPa(for range4,5,6,7)	
Over Pressure Limit	SG: 13.8MPa(for range3,4,5,6,7,8)	
Over Tressure Limit	SG: 31.0MPa(for range9)	
	SG: 51.7MPa(for range0)	
Parameter	3d. 31.7Wra(lor langeo)	
Accuracy	0.075%FS, 0.1%FS, 0.2%FS, 0.5%FS	1, 2
Temperature Effect	Total effects per 28°C(50°F) change:	Ι, Ζ
Temperature Effect		
	For range 2: ±[0.05% URL +0.25% Span]	
Lange Tarres Chalaitin	For other ranges: ±[0.025% URL +0.125% Span]	
Long-Term Stability	In 12 months, ±0.1% of maximum range	
Static pressure effect	For range 2: ±1%URL/6.9MPa	
	For range 3: ±0.5%URL/6.9MPa	
	For other ranges: ±0.25%URL/6.9MPa	
Location installed effect	The maximum of the zero point movement is 0.25kPa	
Power Effect	<0.005%/V range calibrated	
Physical Specifications		
Electrial connection	M20x1.5, 1/2-14NPT	
Process connection	1/4-18NPT	
Material	Isolated membrane: 316LSS, Hastelloy-C, Monel, Tantalum	
	Exhaust/outlet valve: 316SS, 316LSS	
	Flange and connector: 316SS	
	O-ring: fluororubber	
	Bolt: Zinc plating carbon steel	
	housing: low copper of albronze	
Net Weight	3.6kg(with display), 3.4kg(no display)	

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.

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

0	rd	er	ing	Inforr	mation

Ordering	Intormation				Applicable	<u>,</u>	O Not ap	plicable
Model	Туре				SG	SA	SD	SH
DPM510SG	Gauge Pressure Transi	•	0	0	0			
DPM510SA	Absolute Pressure Tra	0		0	0			
DPM510SD	Differential Pressure 1				0	0	•	0
DPM510SH	high static Pressure Tr	ransmitter			0	0	0	•
Code	Pressure range				SG	SA	SD	SH
2	0.031.5kPa				0	0	•	0
3	0.0757.5kPa				•	0	•	•
4	0.37437.4kPa				•		•	
5	1.86186.8kPa				•	•	•	•
6	6.9690kPa				•	•	•	•
7	20.682068kPa				•	•	•	•
8	68.96890kPa				•		•	0
9	206.820680kPa				•	0	0	0
0	413.741370kPa				•	0	0	0
Code	Output signal				SG	SA	SD	SH
A	420mA, Analog sign	nal			•	•	•	•
Н	HART protocol				•	•	•	•
F	FF H1 protocol				•	•	•	•
P	Profibus PA protocol				•	•	•	•
Code	Accuracy				•	•	•	
01	0.1%FS				•	•	•	•
02	0.2%FS				•	•	•	•
05	0.5%FS				•	•	•	•
Code	Meterials				SG	SA	SD	SH
		exhaust/outlet valve	membrane	filled liquid				
22		316SS	316LSS	silicone oil	•	•		
23		316SS	Hastelloy-C	silicone oil	•	•		0
24		316SS	Monel	silicone oil	•	•	•	0
25		316SS	Tantalum	silicone oil	•	0	•	0
33	· ·	Hastelloy-C	Hastelloy-C	silicone oil	•			0
35		Hastelloy-C	Tantalum	silicone oil		0	•	0
44		Monel	Monel	silicone oil	•	20	•	0
Code	Mounting kit				SG	SA	SD	SH
B1	2" pipe mounting kit					•	•	•
B2	panel mounting kit	. 1.14				•	•	•
B3 Code	2" pipe flat mounting				SG	SA	• CD	SH
D1	Exhaust valve (optio side exhaust valve on				3G	SA	SD	211
D2	side exhaust valve on							
D2	exhaust valve on mide							
Code	Process connection				SG	SA	SD	SH
D42	1/4-18NPT(female)				•	•	•	•
D42	1/2-14NPT(female)							
Code	Electrical connection	nn .			SG	SA	SD	SH
E1	M20x1.5)II			•	•	•	•
E2	1/2-14NPT						•	
Code	Meters				SG	SA	SD	SH
M0	no meter				•	•	•	•
M1	LCD display						•	
Code	Bolting meterials				SG	SA	SD	SH
L1	1Cr18Ni9				•	•	•	•
L2	0Cr17Ni4Cu4Nb					•		
L3	42CrMo					•		
-		10SD-3-H-020-220-B1-D1	-D42-E1-M1-L1					
	<u> </u>							

Model MPT600 For Melt Pressure Measurement



Features

- Measuring ranges from 20bar to 1500bar
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Internal shunt calibration signal of 80%FSO
- Metal foil strain gauge technology
- Variety of Pressure connections
- Output 4...20mA,0...10V,3.33mV/V and others

Product Overview

MPT600 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of MPT600 is 3.33mV/V as the output signal fo the full bridge. In addition, the output of bridge also can be configured to either 4~20mA of 0~10Vdc standard signal by sensor signal conditioning. Zero & full span can be adjustable, with amplify signal can be connected with PLC. With the advantage of high precision and reliable pressure measuring and good quality, internal 80% calibration and etc.

Standard Pressure Ranges

Nominal pressure	gauge
020bar	A ()
035bar	• 1
050bar	
070bar	•
0100bar	•
0250bar	•
0350bar	•
0500bar	•
0700bar	•
01000bar	•
01500bar	•

Other pressure ranges available. Please consult the factory.

- Process control systems
- Fiber equipment
- Plastic and rubber manufacturing equipment

%FSO/°C

%FSO/year

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

Performance Specifications

Parameter	Value			Units	Notes		
General							
Pressure Range	0-20,,1500			bar	1bar=14.5psi		
Overpressure	1.5xFS(2000k	oar max.)		bar			
Environmental							
Max. Diaphragm Temperature	350			°C	662°F		
Compensated Temperature Range	0 to +80			°C	32°F to 176°F		
Storage Temperature Range	0 to +125			°C	32°F to 257°F		
Electrical @25°C(77°F)							
Output Signal	420mA	05Vdc	15Vdc	3.33mV/V	2mV/V		
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	10Vdc	10Vdc		
Load Resistance	<(Vs-12)/0.02	2A (For current	output), >10k	Ω (For voltage	output)		
Insulation Resistance	100MΩ@50V	dc					
Physical Specifications							
Media Compatibility	All media con	npatible with 15	5-5PH stainles:	steel			
Housing	304 stainless	steel					
Diaphragm	15-5PH stainl	ess steel					
Seal Ring	1						
Parameter	Minimum	Typical	Maxim	um Unit	s Notes		
Performance							
Accuracy	0.25	0.5	1.0	%FS	0 1,2		
Temp Coeff - Zero		±0.05	±0.07	%FS	0/°C		

±0.05

±0.2

±0.07

±0.3

Notes

Temp Coeff - Span

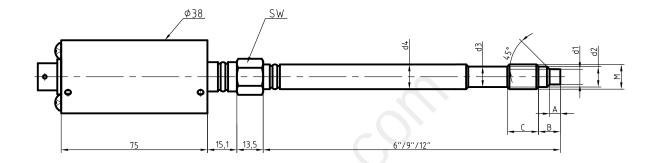
Long-Term Stability

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.

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

6- pin Connector			
		2-wire(current)	4-wire(voltage)
	Signal+	В	Α
	Signal-	-	В
((° ° B°))	supply+	Α	C
OF 0 CO	supply-	-	D
	calibratio	n E	E
	calibration	n F	F

Dimensions (in mm)



М	d1	d2	d3	d4	Α	В	C	SW	6"	9"	12"
1/2-20UNF	φ7.8	Ø10.5	Ø10.5	Ø12.7			16	16			
M14×1.5	Ψ1.0	Ø11.8	Ø11.8	Ø13.5	5.4	11.2	10	16	152	230	305
M18×1.5	Ø9.8	Ø15		Ø15.5			20	22			

Option1:	Model												
MPT600	Melt Pro	essure Tra	nsmitte	r									
	Option	2: Pressu		ges									
	0200	020ba			7000	0700ba	r						
	0350	035ba			1001	01000b							
	0700	070ba			1501	01500b							
	1000	0100			Cxxx	Customize	ed range						
	2500	02501											
	3500	03501											
	5000	05001											
		Option	3:Temp	erature :	Sensor								
		-	-										
				n4: Outp		al							
			42	420n									
				05 05Vdc									
			10 010Vdc										
			20	2mV/V									
			33		3.33mV/V								
					15: Accı	•							
				02	0.25%								
				05	0.5%F								
				10	1.0%F		Deficial stans						
							h of rigid stem						
					6	152mm 230mm	A V T						
					12	305mm	· ·						
					Lx	Custom	· ·						
					LX		7: Mechanical Connection						
						U2	1/2-20UNF(male) M22 M22x1.5(male)						
						M14	M14x1.5(male) G3 G3/8(male)						
						M18	M18x1.5(male) Nx Customized						
MPT600	0350		42	02	6	U2	Examples of Ordering Code: MPT600-0350-42-02-6-U2						
MPTOUU	0330		42	- 02	_ 0	02	Likalilples of Orderling Code. Wir 1000-0530-42-02-0-02						

Model DPM610

For Melt Pressure & Temperature Measurement



Features

- Measuring ranges from 20bar to 1500bar
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Internal shunt calibration signal of 80%FSO
- Metal foil strain gauge technology
- Temp. sensors: J, K, E type thermalcouple, Pt100
- Output 4...20mA,0...10V,3.33mV/V and others

Product Overview

MPT610 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of MPT610 is 3.33mV/V as the output signal fo the full bridge. In addition, the output of bridge also can be configured to either 4~20mA of 0~10Vdc standard signal by sensor signal conditioning. Zero & full span can be adjustable, with amplify signal can be connected with PLC. With the advantage of high precision and reliable pressure measuring and good quality, internal 80% calibration and etc.

Standard Pressure Ranges

Nominal pressure	gauge
020bar	A. ()
035bar	•)
050bar	•
070bar	•
0100bar	•
0250bar	•
0350bar	•
0500bar	•
0700bar	•
01000bar	•
01500bar	•

Other pressure ranges available. Please consult the factory.

- Process control systems
- Fiber equipment
- Plastic and rubber manufacturing equipment

Performance Specifications

Parameter	Value			Units	Notes		
General							
Pressure Range	0-20,,1500			bar	1bar=14.5	psi	
Overpressure	1.5xFS(2000k	oar max.)		bar			
Temperature Sensor	J, K, E type th	ermalcouple, P	100				
Environmental							
Max. Diaphragm Temperature	350			°C	662°F		
Compensated Temperature Range	0 to +80			°C	32°F to 17	6°F	
Storage Temperature Range	0 to +125			°C	32°F to 25	7°F	
Electrical @25°C(77°F)							
Output Signal	420mA	05Vdc	15Vdc	3.33mV/V	2mV/V		
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	10Vdc	10Vdc		
Load Resistance	<(Vs-12)/0.02	2A (For current	output), >10k	Ω (For voltage	output)		
Insulation Resistance	100MΩ@50V	'dc					
Physical Specifications							
Media Compatibility	All media con	npatible with 1!	5-5PH stainles:	s steel			
Housing	304 stainless	steel					
Diaphragm	15-5PH stainl	ess steel					
Seal Ring	1						
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes	
Performance							
Accuracy	0.25	0.25 0.5 1.0			0	1,2	
Temp Coeff - Zero		±0.05	±0.07	%FS	0/°C		
Temp Coeff - Span		±0.05	±0.07	%FS	0/°C		

 ± 0.2

±0.3

%FSO/year

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.

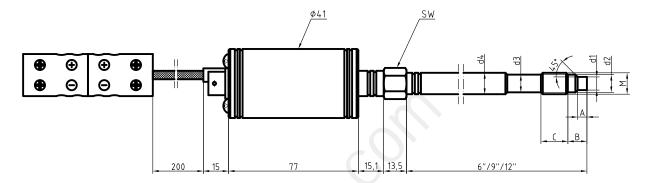
The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

Long-Term Stability

6- pin Connector			
		2-wire(current)	4-wire(voltage)
	Signal+	В	Α
NO NO NO	Signal-	-	В
((° ° B°))	supply+	Α	C
OE D CO	supply-	-	D
	calibratio	n E	E
	calibration	n F	F

Dimensions (in mm)



М	d1	d2	d3	d4	А	В	С	SW	6"	9"	12"
1/2-20UNF	470	Ø10.5	Ø10.5	Ø12.7			16	16			
M14×1.5	φ7.8	Ø11.8	Ø11.8	Ø13.5	5.4	11.2	10	16	152	230	305
M18×1.5	Ø9.8	Ø15		Ø15.5			20	22			

Ordering Information

Option1:									
MPT610		essure Tra		-					
	Option	2: Pressi	ure Rang	ges					
	0200	020b	ar		7000	0700bar			
	0350	035b	ar		1001	01000ba	r		
	0700	070b	ar		1501	01500ba	r		
	1000	0100	bar		Cxxx	Customized	d range		
	2500	0250	bar						
	3500	0350	bar						
	5000	0500							
		Option		erature					
		J		hermalco					
		K		thermalc					
		E		thermalc					
		Pt100		hermal r					
	Option4:					al			
			42	420r					
			05	05Vd					
			10	010\					
			20	2mV/V					
			33	3.33m					
					n5: Acc				
				02	0.25%				
				05	0.5%1				
				10	1.0%				
					-		of rigid stem		
					6	152mm (
					9	230mm(
					12	305mm(
					Lx	Customi			
							: Mechanical Con		
						U2	1/2-20UNF(male)	M22	M22x1.5(male)
							M14x1.5(male)	G3	G3/8(male)
MARTCAR	0250		42	0.3	6		M18x1.5(male)	Nx	Customized
MPT610	0350	J	42	02	6	U2	Examples of Orderi	ng Cod	e: MPT610-0350-J-42-02-6-U2

710002, China

Model DPM620 For Melt Pressure Measurement



Features

- Measuring ranges from 20bar to 1500bar
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Internal shunt calibration signal of 80%FSO
- Metal foil strain gauge technology
- Variety of Pressure connections
- Output 4...20mA,0...10V,3.33mV/V and others

Product Overview

MPT620 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of MPT620 is 3.33mV/V as the output signal fo the full bridge. In addition, the output of bridge also can be configured to either 4~20mA of 0~10Vdc standard signal by sensor signal conditioning. Zero & full span can be adjustable, with amplify signal can be connected with PLC. With the advantage of high precision and reliable pressure measuring and good quality, internal 80% calibration and etc.

Standard Pressure Ranges

Nominal pressure	gauge
020bar	A ()
035bar	• 1
050bar	
070bar	•
0100bar	•
0250bar	•
0350bar	•
0500bar	•
0700bar	•
01000bar	•
01500bar	•

Other pressure ranges available. Please consult the factory.

- Process control systems
- Fiber equipment
- Plastic and rubber manufacturing equipment

%FSO/°C

%FSO/year

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

Performance Specifications

Parameter	Value			Units	Notes		
General							
Pressure Range	0-20,,1500			bar	1bar=14.5psi		
Overpressure	1.5xFS(2000k	oar max.)		bar			
Environmental							
Max. Diaphragm Temperature	350			°C	662°F		
Compensated Temperature Range	0 to +80			°C	32°F to 17	76°F	
Storage Temperature Range	0 to +125			°C	32°F to 25	57°F	
Electrical @25°C(77°F)							
Output Signal	420mA	05Vdc	15Vdc	3.33mV/V	2mV/V		
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	10Vdc	10Vdc		
Load Resistance	<(Vs-12)/0.02	2A (For current	output), >10k	Ω (For voltage	output)		
Insulation Resistance	100MΩ@50V	'dc					
Physical Specifications							
Media Compatibility	All media con	npatible with 1	5-5PH stainles	s steel			
Housing	304 stainless	steel					
Diaphragm	15-5PH stain	less steel					
Seal Ring	1						
Parameter	Minimum	Typical	Maxim	um Unit	:S	Notes	
Performance							
Accuracy	0.25	0.5	1.0	%FS	0	1,2	
Temp Coeff - Zero		±0.05	±0.07	%FS	O/°C		

±0.05

±0.07

±0.3

Notes

Temp Coeff - Span

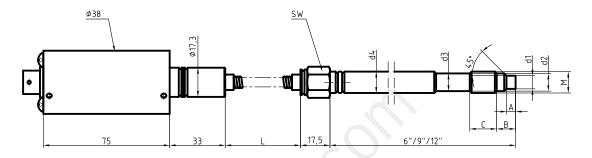
Long-Term Stability

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.

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

6- pin Connector			
		2-wire(current)	4-wire(voltage)
	Signal+	В	Α
9	Signal-	-	В
((° ° B°))	supply+	Α	С
OE D CO	supply-	-	D
	calibratio	n E	E
	calibratio	n F	F

Dimensions (in mm)



М	d1	d2	d3	d4	Α	В	C	SW	6"	9"	12"	L
1/2-20UNF	470	Ø10.5	Ø10.5	Ø12.7	50	7	16	16				160
M14×1.5	φ7.8	Ø11.8	Ø11.8	Ø13.5	5.4	11.2	10	16	152	230	305	460 760
M18×1.5	Ø9.8	Ø15		Ø15.5			20	22				

Option1:												
MPT620	Melt Pro	essure Tra	nsmitte	r								
	Option	2: Pressu	ire Ran	ges								
	0200	020b	ar		7000	0700ba	r					
	0350	035b	ar		1001	01000b	ar					
	0700	070b	ar		1501 01500bar							
	1000	0100	bar		Cxxx	Customize	ed range					
	2500	0250	bar									
	3500	0350	bar									
	5000	0500										
		Option	3: Temp	erature	Sensor							
		-	-									
			Optio	n4: Outp	ut Signa	l						
			42	420r	nA							
			05	05Vd	dc							
			10	010\	/dc							
			20	2mV/V								
			33 3.33mV/V									
					n5: Accu	racy						
				02	0.25%F							
				05	0.5%FS							
				10	1.0%FS							
						16: Lengt		dstem				
					6	152mm						
					9	230mm						
					12	305mm						
					Lx	Custom			_			
						-		h of flexibe extens	ion			
				4 460mm								
						7	760mm					
						Сх	Custom					
								8: Mechanical Con				
							U2	1/2-20UNF(male)	M22	M22x1.5(male)		
							M14	M14x1.5(male)	G3	G3/8(male)		
							M18	M18x1.5(male)	Nx	Customized		
MPT620	0350		42	02	6	4	U2	Examples of Orderi	ng Cod	e: MPT620-0350-42-02-6-4-U2		

Model DPM630

For Melt Pressure & Temperature Measurement



Features

- Measuring ranges from 20bar to 1500bar
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Internal shunt calibration signal of 80%FSO
- Metal foil strain gauge technology
- Temp. sensors: J, K, E type thermalcouple, Pt100
- Output 4...20mA,0...10V,3.33mV/V and others

Product Overview

MPT630 is made from metal foil gauge, manufactured free of mercury, and made from stainless steel material to high quality standard. The output of MPT630 is 3.33mV/V as the output signal fo the full bridge. In addition, the output of bridge also can be configured to either 4~20mA of 0~10Vdc standard signal by sensor signal conditioning. Zero & full span can be adjustable, with amplify signal can be connected with PLC. With the advantage of high precision and reliable pressure measuring and good quality, internal 80% calibration and etc.

Standard Pressure Ranges

Nominal pressure	gauge
020bar	~ (0)
035bar	• 1
050bar	
070bar	•
0100bar	•
0250bar	•
0350bar	•
0500bar	•
0700bar	•
01000bar	•
01500bar	•

Other pressure ranges available. Please consult the factory.

- Process control systems
- Fiber equipment
- Plastic and rubber manufacturing equipment

Performance Specifications

Parameter	Value			Units	Notes
General					
Pressure Range	0-20,,1500			bar	1bar=14.5psi
Overpressure	1.5xFS(2000)	oar max.)		bar	
Temperature Sensor	J, K, E type th	ermalcouple, Pt	t100		
Environmental		·			
Max. Diaphragm Temperature	350			°C	662°F
Compensated Temperature Range	0 to +80			°C	32°F to 176°F
Storage Temperature Range	0 to +125			°C	32°F to 257°F
Electrical @25°C(77°F)					
Output Signal	420mA	05Vdc	15Vdc	3.33mV/V	2mV/V
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	10Vdc	10Vdc
Load Resistance	<(Vs-12)/0.0	2A (For current	output), >10k	Ω (For voltage	e output)
Insulation Resistance	100MΩ@50\				• •
Physical Specifications					
Media Compatibility	All media cor	npatible with 1!	5-5PH stainles:	steel	
Housing	304 stainless	•			
Diaphragm	15-5PH stain	less steel			
Seal Ring	1				
Parameter	Minimum	Typical	Maxim	um Unit	s Notes
Performance		, , , , , , , , , , , , , , , , , , ,			
Accuracy	0.25	0.5	1.0	%FS	0 1,2
Temp Coeff - Zero		±0.05	±0.07	%FS	0/°C
Temp Coeff - Span		±0.05	±0.07	%FS	0/°C

 ± 0.2

 ± 0.3

%FSO/year

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.

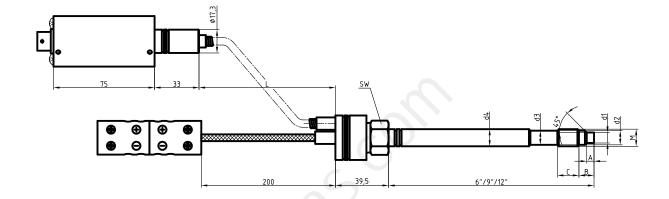
The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

Long-Term Stability

6- pin Connector			
		2-wire(current)	4-wire(voltage)
	Signal+	В	Α
	Signal-	-	В
((° ° B°))	supply+	Α	С
OE D CO	supply-	-	D
	calibratio	n E	E
	calibration	n F	F

Dimensions (in mm)



М	d1	d2	d3	d4	А	В	C	SW	6"	9"	12"	L
1/2-20UNF	470	Ø10.5	Ø10.5	Ø12.7			16	16				460
M14×1.5	φ7.8	Ø11.8	Ø11.8	Ø13.5	5.4	11.2	10	16	152	230	305	760
M18×1.5	Ø9.8	Ø15		Ø15.5			20	22				

Ordering Information

Option1:												
MPT630		essure Tra										
		2: Pressi		ges								
	0200	020b				0700ba						
	0350	035b				01000b						
	0700	070b	ar			01500b						
	1000	0100	bar	Cxxx Customized range								
	2500	0250	bar									
	3500	0350	bar									
	5000	0500										
		Option		erature								
		J		hermalco								
		K		thermalc								
		E		thermalco								
		Pt100		thermal re								
			Optio	n4: Outp		I						
			42	420n	nA							
			05	05Vd	05Vdc							
		10 010Vdc										
			20	2mV/V								
			33	3.33m\								
					n5: Accu	-						
				02	0.25%F							
				05	0.5%FS							
				10	1.0%FS							
						16: Lengt		d stem				
					6	152mm						
					9	230mm						
					12	305mm						
					Lx	Custom						
						Option		h of flexibe extension				
4 460mm												
						7	760mm					
						Сх	Custom					
							Option	8: Mechanical Connection				
							U2	1/2-20UNF(male) M22 M22x1.5(male)				
							M14	M14x1.5(male) G3 G3/8(male)				
							M18	M18x1.5(male) Nx Customized				
MPT630	0350	J	42	02	6	4	U2	Examples of Ordering Code: MPT630-0350-J-42-02-6-4-U2				

710002, China

Model LV800 For Level Measurement



Features

- Measuring ranges from 1mH₂O to 200mH₂O
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

LV800 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The LV800 is precision engineered to fit most level measurement. The water-proof cable connects with housing sealed, with vented tube putting in, the transmitter could be used in the water or liquid in a long time. Integrated construction and standard output signal could provide easy operation and good automatic control.

Standard Pressure Ranges

gauge	
•	()·
•	
•	
•	
•	
•	
•	
•	
•	
•	
	gauge

Other pressure ranges available. Please consult the factory.

- Level measurement
- Hydraulic monitoring in rivers and sea
- Muddy liquid level measurement
- Water treatment
- Water diversion project

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1,,200			mH ₂ O		
Overpressure	1.5xFS			mH ₂ O		
Environmental						
Operating Temperature Range	-20 to +70			°C	-4°F to 158	°F
Compensated Temperature Range	0 to +70			°C	32°F to 158	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 25	7°F
Vibration	10			g	20 to 2000l	Ηz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA 0	5Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc 1	236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media compa	tible with 3°	16L stainless st	teel		
Housing	304 stainless ste	el				
Diaphragm	316L stainless st	eel				
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP68					
Net Weight Net Weight	Approx.225g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance						
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3
Temp Coeff - Span		±0.75	±1.5	%FS	0	3
Long-Term Stability		±0.2	±0.3	%FS0	O/year	1

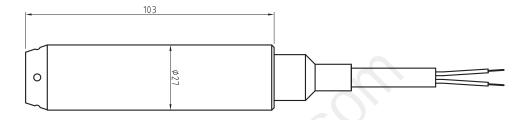
Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. 0° C to 70° C(32°F to 158°F) with reference to 25°C(77°F).

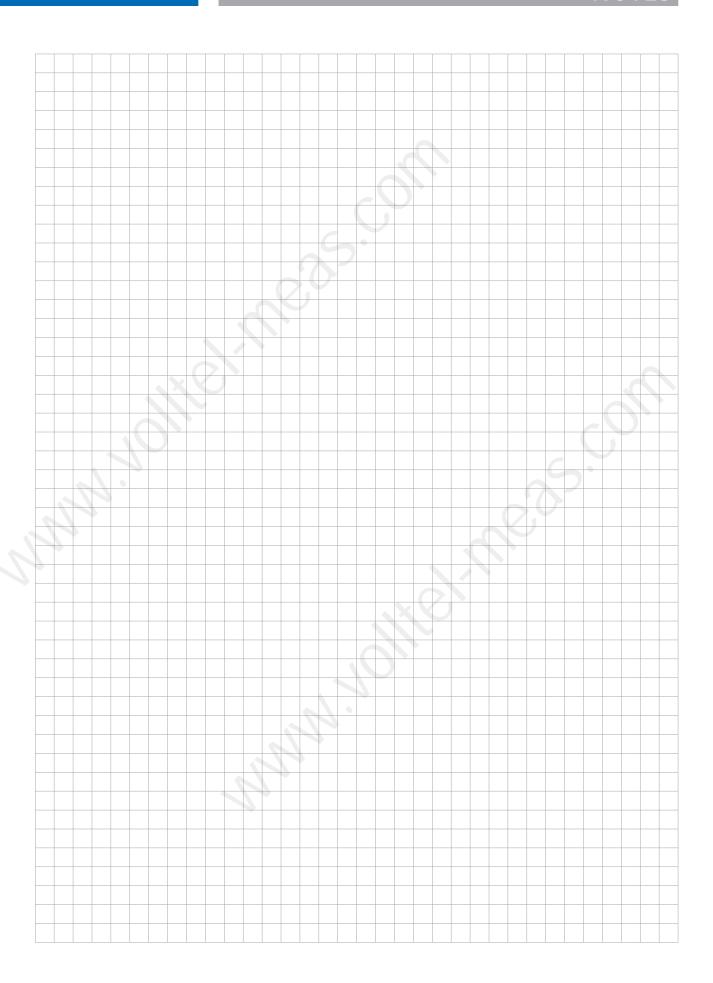
The listed specifications and dimensions are subject to change without prior notice.

Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	yellow	yellow
	Gnd	-	black

Dimensions (in mm)



Option1:	Model						
LV800	Level Tra	ansmitter					
	Option	2: Pressu	ire Rang	ges			
	0001	1mH ₂ 0			0100 100mH ₂ 0		
	0002	2mH ₂ 0			0150 150mH ₂ 0		
	0005	5mH ₂ 0			0200 200mH ₂ 0		
	0010	10mH ₂ 0			Cxxx Customized range		
	0020	20mH ₂ 0					
	0050	50mH ₂ 0					
	0800	80mH ₂ 0					
				elength			
				[x]m		e length	
					ո4։ Outpւ	•	
			42	420m			
			05	05Vd			
			15	15Vd	С		
			10	010V			
			45		5(ratiometric)		
					5: Accuracy		
				02	0.25%FSO		
				05	0.5%FSO		
LV800	0010	15	42	02	Examples of Ordering Code: LV800-0010-15-42-02		





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