

#### **Compact Differential Pressure Transducer**



The PDM220 series pressure sensors provide accurate differential pressure measurement of gas and liquids in ranges from 250mbar up to 600bar. Standard unamplified and amplified analog outputs are available : mV/V, 0.5-4.5Vdc, 0-5Vdc and 2-wire 4 to 20mA current loop. They are suitable for uni or bi-directional measurement. Their construction being all stainless steel, they are compatible with most media, including corrosive fluids used in automotive and aerospace industries.

Technical specification	IS				
Uni-directional pressure ranges (FS)	250mbar ; 500mbar ; 1bar ; 2bar ; 3bar ; 5bar ; 10bar ; 20bar ; 40bar ; 100bar ; 250bar ;				
	400bar ; 600bar				
Bi-directional pressure ranges (FS)	$\pm 250 mbar$ ; $\pm 500 mbar$ ; $\pm 1 bar$ ; $\pm 2 bar$ ; $\pm 3 bar$ ; $\pm 5 bar$ ; $\pm 10 bar$ ; $\pm 20 bar$ ; $\pm 40 bar$ ;				
	±100bar ; ±250bar ; ±400bar ; ±600bar				
Туре	Differential				
Line pressure	Less or equal to nominal pressure range				
Safe overload	150% FS				
Burst pressure	300% FS				
Power supply	15 to 30Vdc				
Consumption	< 10mA				
Insulation	> 1000 MOhms under 50Vdc at ambient temperature				
Output at -100%FS (only for ± range)	0Vdc				
Output at 0%FS (except ranges ±)	0Vdc				
Output at 100%FS	5Vdc				
Zero and sensitivity settings tolerances	±50mV				

## **PDM224**

### Technical Specifications

Non linearity and hysteresis combined	±0.25% FS
	Option : ±0.15% FS
Non repeatability	±0.05% FS
Signal bandwidth	1000Hz @ -3dB
Compensated temperature range	0 to +60°C
	Option : -25 to +85°C ; -25 to +125°C
Operating temperature range	-25 to +125°C
Combined thermal zero & sensitivity shifts	±0.02% FS/°C
EMC protection	Compliant to EN61000
Electrical connection	DIN 43650 Receptacle - 4 pins
	Option : Hermetic MIL-C-26482 - 6 pins Receptacle
Mechanical connection	1/4 Gaz A male ; 1/4 NPT male ; M14x1.5-4h male
	Option : 7/16-20 UNJF-3A male - MS33656-4 ; M10x1-4h male with 80° internal cone
Material(s) of wetted parts	Stainless Steel 316L ; Stainless Steel 17-4PH ; Stainless steel 15-5PH
Enclosure protection	IP65

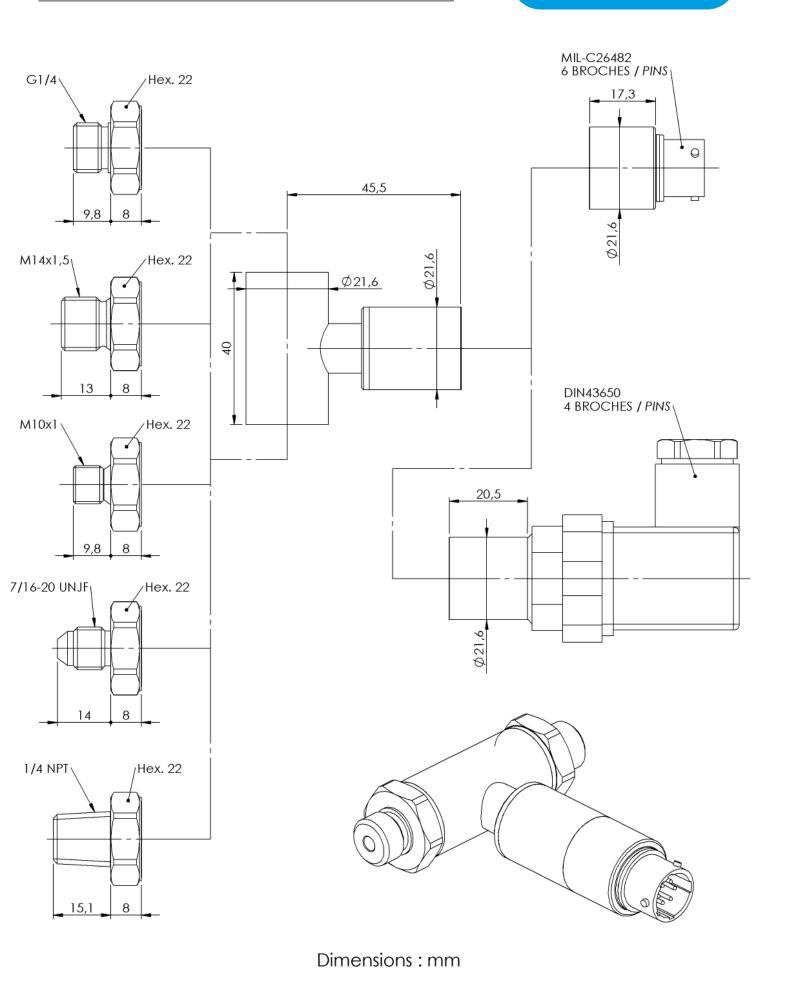
## **PDM224**

# Codification

Compact Differential Pressure Transducer       PDM22       4       S       1 bar       D       01       01       A       1         Output Signal       0-50 vdc       a												
0-5Vdc       4         Material       Stainless Steels       S         Range       1bar         Type       Differential       D         Mechanical connection       D       D         Mechanical connection       01       01         MithX1.5-4h male       07       01         1/4 Gaz A male       07       01         1/14 Gaz A male       07       01         1/14 NPT male       13       01         1/2 NPT male       13       01         1/4 NPT male       13       01         1/2 NPT male       13       01         1/3 N10x1-4h male with 80° internal cone       10       13         1/4 NPT male       13       01         1/2 NPT male       13       01         1/2 NPT male       13       01         1/4 NPT male       13       01         1/2 NPT male       13       01         1/2 NPT male       13       01         1/4 NPT male       13       01         1/4 NPT male       13       01       01         1/4 NPT male       12       13       01         1/4 NPT male       12       13	Compact Differential Pressure Transo	lucer	PDM22	4	S	1bar	D	01	01	A	1	1
Material       Stainless Steels       S         Range       iter         Example       iter         Type       Differential       D         Mechanical connection       D       D         Mechanical connection       01       01         Mithx1.5-4h male       07       01         1/4 Gaz A male       07       10         1/14 Qaz A male       07       10         1/14 NPT male       13       10         Mit0x1-4h male with 80° internal cone       19       13         Electrical connection       13       13         Compensated temperature range       01 ot +60°C       10         Compensated temperature range       01 ot +60°C       6         -25 to +125°C       C       C       B         -25 to +125°C       C       C       C       C         Mon linearity and hysteresis combined       1       5       5         Combined thermal zero & sensitivity shifts       1       5	Output Signal											
Stainless Steels       S         Range       1bar         Type       0         Mechanical connection       0         M14x1.5-4h male       0         1/4 Gaz A male       07         7/16-20 UNJF-3A male - MS336564       0         1/4 NPT male       01         1/4 NPT male       13         M10x1-4h male with 80° internal cone       13         M10x1-4h male with 80° internal cone       13         M10x1-4h male with 80° internal cone       13         B1N 43650 Receptacle - 4 pins       13         Compensated temperature range       0         1/4 Res       1         0 to +60°C       1         -25 to +155°C       1         Complementature range       1         1/2 Sto +85°C       1         -25 to +125°C       1         Continearity and hysteresis combined       1         1/2 Sto +25°C       1		0-5Vdc		4								
Range       Ibar         Example       Ibar         Type       Differential       D         Mechanical connection       0       0         MitAx1.5-4h male       01       07         1/4 Gaz A male       07       0         7/16-20 UNJF-3A male - MS386564       00       10         1/4 NPT male       13       13         M10x1-4h male with 80° internal cone       13       13         M10x1-4h male with 80° internal cone       19       13         Electrical connection       19       13         Compensated temperature range       01       03         Compensated temperature range       0       25 to +85°C         -25 to +125°C       C       C         Non linearity and hysteresis combined       5       6         100       12.25% FS       10.15% FS       5         10.15% FS       10.15% FS       5	Material											
Example       1 bar         Type       Differential       D         Mechanical connection       0       0         MitAt.5-4h male       01       01         1/4 Gaz A male       07       0         7/16-20 UNJF-3A male - MS336564       0       0         1/4 NPT male       10       13         M10x1-4h male with 80° internal cone       19       19         Electrical connection       19       19         Electrical connection       19       19         Compensated temperature range       0 to +60° C       0         0 to +60° C       10       0       10         -25 to +85° C       25 to +85° C       C       K         -25 to +85° C       10       10       10         -25 to +85° C       25 to +125° C       K       1         Mon linearity and hysteresis combined       1       1         ft0.25% FS       10.15% FS       1       5         Combined thermal zero & sensitivity shifts       5		Stainless Steels			S							
Type       Differential       D       I	Range											
Differential       D         Mechanical connection       01         M14x1.5-4h male       01         1/4 Gaz A male       07         7/16-20 UNJF-3A male - MS336564       00         1/4 NPT male       13         M10x1-4h male with 80° internal cone       13         M10x1-4h male with 80° internal cone       19         Electrical connection       19         Electrical connection       10         DIN 43650 Receptacle 4 pins       11         Hermetic ML-C-26482 - 6 pins Receptacle       01       01         Compensated temperature range       0 to +60°C       1         0 to +60°C       -25 to +135°C       K         -25 to +125°C		Example				1bar						
Mechanical connection       M14x1.5-4h male       01         M14x1.5-4h male       01         1/4 Gaz A male       07         7/16-20 UNJF-3A male - MS33656-4       00         1/4 NPT male       13         M10x1-4h male with 80° internal cone       13         M10x1-4h male with 80° internal cone       19         Electrical connection       19         Electrical connection       01         M10x1508 Receptacle - 4 pins       01         Hermetic MIL-C-26482 - 6 pins Receptacle       01         Compensated temperature range       01         0 to +60°C	Туре											
M14x1.5-4h male       01         1/4 Gaz A male       07         7/16-20 UNJF-3A male - MS33656-4       00         1/4 NPT male       13         M10x1-4h male with 80° internal cone       19         Electrical connection       9         Electrical connection       01         B       01         Compensated temperature range       01         0 to +60°C       0         -25 to +85°C       2         -25 to +85°C       2         -25 to +125°C       V         Non linearity and hysteresis combined       1         ±0.25% FS       1         Combined thermal zero & sensitivity shifts       1		Differential					D					
$1/4$ Gaz A male       07 $7/16-20$ UNJF-3A male - MS33656-4       10 $1/4$ NPT male       13 $M10x1-4h$ male with 80° internal cone       19         Electrical connection       19         Electrical connection       01         DIN 43650 Receptacle - 4 pins       01         Hermetic MIL-C-26482 - 6 pins Receptacle       03         Compensated temperature range       01 $0 to + 60^{\circ C}$ 01 $-25 to + 85^{\circ C}$ 8 $-25 to + 125^{\circ C}$ C         Non linearity and hysteresis combined       C $\pm 0.25\%$ FS $-25 to + 325^{\circ C}$ $-25 to + 125^{\circ C}$ $-5$ Montinearity and hysteresis combined $5$ $\pm 0.15\%$ FS $-5$ Combined thermal zero & sensitivity shifts $5$	Mechanical connection											
7/16-20 UNJF-3A male - MS33656-410131/4 NPT male1313M10x1-4h male with 80° internal cone19Electrical connection01DIN 43650 Receptacle - 4 pins01Hermetic ML-C-26482 - 6 pins Receptacle03Compensated temperature range030 to +60°C3-25 to +85°CK-25 to +85°CKNon linearity and hysteresis combinedK±0.25% FS					01							
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M10x1-4h male with 80° internal cone19Electrical connection01DIN 43650 Receptacle - 4 pins Hermetic MIL-C-26482 - 6 pins Receptacle01Compensated temperature range030 to +60°C	7/16-20 L											
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DIN 43650 Receptacle - 4 pins Hermetic MIL-C-26482 - 6 pins Receptacle01010303Compensated temperature range0 to +60°CAA-25 to +85°C		n male with 80° internal cone			19							
Hermetic MIL-C-26482 - 6 pins Receptacle03346Compensated temperature range0 to +60°CAA0 to +60°C-25 to +85°CBB-25 to +125°C-25 to +125°CCCNon linearity and hysteresis combined±0.25% FSC5±0.15% FS												
Compensated temperature range0 to +60°CA0 to +60°CA-25 to +85°CB-25 to +125°CCNon linearity and hysteresis combinedC±0.25% FS1±0.15% FS5Combined thermal zero & sensitivity shifts5												
0 to +60°C         A           -25 to +85°C         B           -25 to +125°C         C           Non linearity and hysteresis combined         1           ±0.25% FS         ±0.15% FS           ±0.15% FS         5           Combined thermal zero & sensitivity shifts         5									03			
-25 to +85°C       B         -25 to +125°C       C         Non linearity and hysteresis combined       C         ±0.25% FS       1         ±0.15% FS       5         Combined thermal zero & sensitivity shifts       5	Compensated temperature range											
-25 to +125°CCNon linearity and hysteresis combined±0.25% FS±0.25% FS1±0.15% FS5Combined thermal zero & sensitivity shifts												
Non linearity and hysteresis combined     1       ±0.25% FS     1       ±0.15% FS     5       Combined thermal zero & sensitivity shifts												
±0.25% FS1±0.15% FS5Combined thermal zero & sensitivity shifts										С		
±0.15% FS 5 Combined thermal zero & sensitivity shifts	Non linearity and hysteresis combined											
Combined thermal zero & sensitivity shifts												
											5	
±0.02% F5/°C	Combined thermal zero & sensitivity s											4
		±0.02% FS/°C										1

### Dimensions

## **PDM224**



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MIL-C26482 - 6 PINS			
VOLTAGE OUTPUT	PIN		
+ EXCITATION	PIN A		
+ SIGNAL	PIN B		
0 VOLT	PIN C		
0 VOLT	PIN D		
SENSOR HOUSING	PINS E & F		

DIN 43650 -	33,4	
VOLTAGE OUTPUT	PIN	2
+ EXCITATION	PIN 1	
+ SIGNAL	PIN 2	<b>│ ∖ ⊢ 〉</b>
0 VOLT	PIN 3	
SENSOR HOUSING	PIN T	Dimensions : mm

Agent :



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