

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

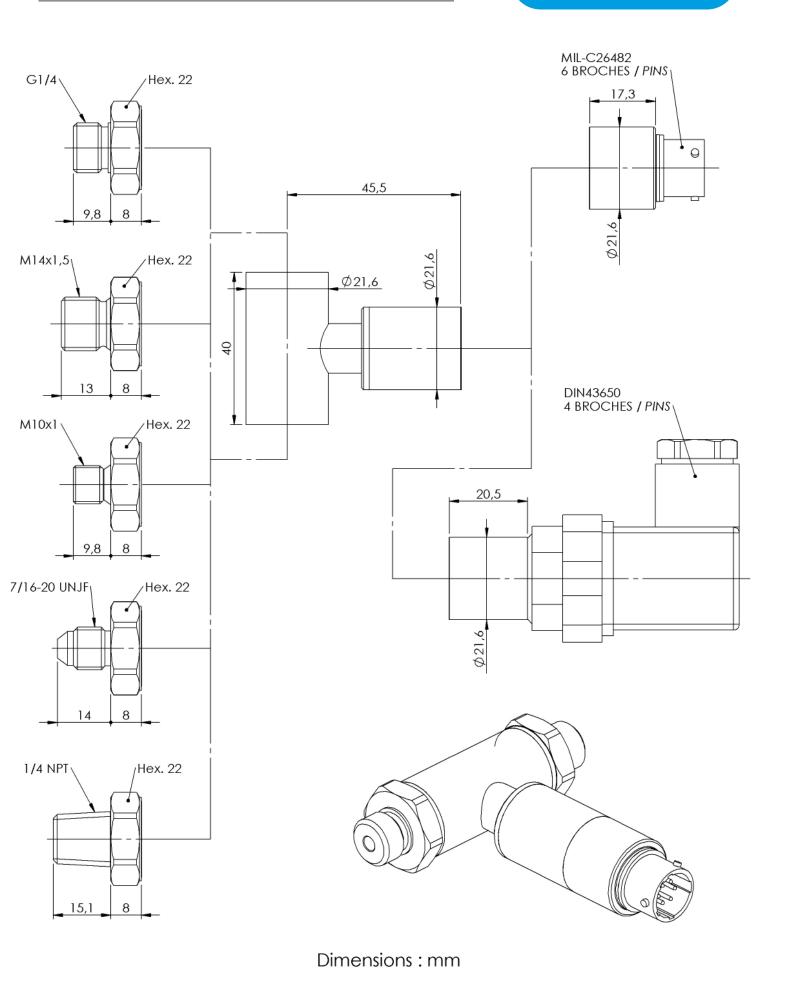
PDM224

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
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Combined thermal zero & sensitivity shifts												
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±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	│ ∖ ⊢ 〉
0 VOLT	PIN 3	
SENSOR HOUSING	PIN T	Dimensions : mm

Agent :



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