

# PM620 TERPS High Accuracy Pressure Modules

PM620 now incorporates our unique range of TERPS resonant silicon pressure sensor technology. Providing up to four times greater stability and higher accuracy than current pressure measurement technologies.





### **Features**

- Total uncertainty from 0.0125% FS
- Temperature compensated accuracy from -10°C to 50°C (-14°F to 122°F)
- Simple screw fit hand tight no tools required
- Ranges from 1.2 bar to 100 bar (17.5 psi to 1500 psi)
- Compatibility with pressure calibrators such as DPI612 and DPI620G/DPI620G-IS series
- Safe and Hazardous area versions available
- Fully interchangeable with no need for set-up or calibration

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The PM620 TERPS is the latest development in resonant silicon pressure sensor technology incorporating a number of key innovations to allow pressure re-ranging of compatible equipment. A simple screw fit makes both the pressure and electrical connections without the need for tools, sealing tape, cables or plugs and digital characterisation allows interchangeability without set-up or calibration.

PM620 TERPS Specification			
Maximum working pressure	110% FS		
Sealing	IP 65 (protected against dust and jets of water)		
Operating temperature	-10 to 50°C (14 to 122°F)		
Storage temperature	-20 to 70°C (-4 to 158°F)		
Humidity	0 to 90% RH non condensing		
Shock and vibration	BS EN 61010-1		
	MIL-PRF-28800F for Class II		
	equipment, 1 m Drop Tested		
EMC	BS EN 61326-1		
Electrical safety	BS EN 61010-1		
Pressure safety	Pressure equipment directive class SEP		

Approval	CE marked
Size and weight	L. 56 mm, Dia. 44 mm,
	106 g maximum
RoHS	Compliant
Orientation Stability	<0.2 mbar/g
Media Compatibility	Media to be compatible with Stainless Steel
Resolution	Selectable - 4 to 7 digits
Uncertainty Confidence Level	95% (k=2)

Uncertainty	/		
Pressure Range	NLHR	NLHR	Total uncertainty
(Absolute)	@ 25°C	@ -10°C to 50°C	@ -10°C to 50°C
	(% FS)	(% FS)	(% FS)
1.2 bar	0.006%	0.013%	0.020%
2 bar	0.004%	0.008%	0.0125%
7 bar	0.004%	0.008%	0.0125%
20 bar	0.004%	0.008%	0.0125%
35 bar	0.004%	0.008%	0.0125%
70 bar	0.004%	0.008%	0.0125%
100 bar	0.004%	0.008%	0.0125%

Hazardous Area Approvals		
Approval	Baseefa 16ATEX0012X	
	IECEx BAS 10.0004X	
	Ex II 1 G	
	Ex ib IIC T4 Gb (-10 ≤ Ta ≤ +50°C)	
EN60079-0	Electrical apparatus for Potentially Explosive	
	Atmospheres - General Requirements.	
EN60079-11	Electrical apparatus for Potentially Explosive	
	Atmospheres - Intrinsic Safety 'i'.	

#### Notes:

1. The reading can be referenced to ambient air pressure via a software feature of the DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement.

2. NLH&R Non-linearity, hysteresis and repeatability to reference standard.

3. Total uncertainty includes reference standard uncertainty, NLHR over specified range and 1 year drift.

## Ordering Information

Please order the following part numbers as separate line items, stating "Model Type" and "Pressure Range". For example: PM620T 2 bar absolute or PM620TS 2 bar absolute.

Commercial "Model Type"	<b>Pressure Rang</b>	<u>ze</u>
	1.2 bar absolute	17 psi absolute
	2 bar absolute	30 psi absolute
	7 bar absolute	100 psi absolute
PM620T	20 bar absolute	300 psi absolute
	35 bar absolute	500 psi absolute
	70 bar absolute	1,000 psi absolute
	100 bar absolute	1,500 psi absolute
Intrinsically safe "Model Type" Pressure Range		
Intrinsically safe "Model Type"	Pressure Rang	<u>ge</u>
Intrinsically safe "Model Type"	Pressure Rang	<b>Se</b> 17 psi absolute
Intrinsically safe "Model Type"		
Intrinsically safe "Model Type"	1.2 bar absolute	17 psi absolute
Intrinsically safe "Model Type" PM620TS	1.2 bar absolute 2 bar absolute	17 psi absolute 30 psi absolute
	<ul><li>1.2 bar absolute</li><li>2 bar absolute</li><li>7 bar absolute</li></ul>	17 psi absolute 30 psi absolute 100 psi absolute
	<ul><li>1.2 bar absolute</li><li>2 bar absolute</li><li>7 bar absolute</li><li>20 bar absolute</li></ul>	17 psi absolute 30 psi absolute 100 psi absolute 300 psi absolute



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