

PM 620 Interchangeable Pressure Module

The PM 620 is the latest development in digital output 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.



PM 620 pressure module specification and recommended use

Model	Pressure range		Precision (NLHR) %FS	Total uncertainty 0° to 50°C (32° to 122°F) for one year %FS		Media	Recommended PM 620 pressure module and IO620-PRV-XX pressure relief valve (PRV)					
							Pneumatic			Hydraulic		
Ordering information							DPI 612 pFlex (20 bar/300 psi max)	DPI 612 pFlexPro (100 bar/1500 psi max)		DPI 612 hFlexPro (1000 bar/15000 psi max)		
PM 620	bar	psi	gauge	absolute	gauge	absolute	PM 620	PRV	PM 620	PRV	PM 620	PRV
Gauge ranges (referenced to atmosphere)												
	+/- 0.025 g	+/-10 inH2O g	0.09		0.1		1	✓		✓		
	+/- 0.07 g	+/-1 g	0.025		0.047		1	✓		✓		
	+/- 0.2 g	+/-3 g	0.02		0.045		1	✓	P1	✓	P1	
	+/- 0.35 g	+/-5 g	0.02		0.044		2	✓	P1	✓	P1	
	+/- 0.7 g	+/-10 g	0.015		0.041		2	✓	P1	✓	P1	
	+/- 1 g	-14.5 to 15 g	0.015		0.041		2	✓	P1	✓	P1	
	-1 to 2 g	-14.5 to 30 g	0.015		0.025		2	✓	P6	✓	P6	
	-1 to 3.5 g	-14.5 to 50 g	0.01		0.025		2	✓	P2	✓	P2	
	-1 to 7 g	-14.5 to 100 g	0.01		0.025		2	✓	P7	✓	P7	
	-1 to 10 g	-14.5 to 150 g	0.005		0.025		2	✓	P7	✓	P7	
	-1 to 20 g	-14.5 to 300 g	0.005		0.025		2	✓	P3	✓	P3	
	0 to 35 g	0 to 500 g	0.005		0.025		2			✓	P4	
	0 to 70 g	0 to 1000 g	0.005		0.025		2			✓	P5	✓ H2
	0 to 100 g	0 to 1500 g	0.005		0.025		2			✓	P5	✓ H2
	0 to 135 g	0 to 2000 g	0.005		0.025		2					✓ H2
	0 to 200 g	0 to 3000 g	0.005		0.025		2					✓ H2
Absolute ranges (referenced to vacuum)												
	0 to 0.35 a	0 to 5 a		0.03		0.08	2	✓ P1		✓P1		
	0 to 1.2 a	0 to 35 inHg a		0.02		0.07	2	✓ P1		✓P1		
	0 to 2 a	0 to 30 a		0.015		0.052	2	✓ P1		✓P1		
	0 to 3.5 a	0 to 50 a		0.015		0.05	2	✓ P6		✓P6		
	0 to 7 a	0 to 100 a		0.015		0.05	2	✓ P7		✓P7		
Dual use sealed gauge and absolute*												
	0 to 10 a	-14.5 to 150 a	0.005	0.015		0.047	2	✓ P7		✓P7		
	0 to 20 a	-14.5 to 300 a	0.005	0.015		0.047	2	✓ P3		✓P3		
	0 to 35 a	0 to 500 a	0.005	0.015		0.047	2			✓P4		
	0 to 70 a	0 to 1000 a	0.005	0.015		0.047	2			✓P5		✓H2
	0 to 100 a	0 to 1500 a	0.005	0.015		0.046	2			✓P5		✓H2
	0 to 135 a	0 to 2000 a	0.005	0.015		0.046	2					✓H2
	0 to 200 a	0 to 3000 a	0.005	0.015		0.046	2					✓H2
	0 to 350 a	0 to 5000 a	0.005	0.015		0.049	2					✓H3
	0 to 700 a	0 to 10000 a	0.005	0.015		0.049	2					✓H4
	0 to 1000 a	0 to 15000 a	0.005	0.015		0.049	2					✓H5

FS = full scale

NLH&R = Non-linearity, hysteresis and repeatability

Media 1 compatible with non-corrosive gas/fluid

Media 2 Compatible with stainless steel

* The reading can be referenced to ambient air pressure, allowing the same module to be switched between absolute and sealed gauge measurement

DPI 612 Flex pressure resolution is adjustable from 4 to 7 digits.

Total uncertainty includes reference standard uncertainty, temperature errors, NLH&R and typical long term stability for one year (K=2).

PM 620 General Specification (where different from DPI 612 Flex general specification)

Maximum intermittent pressure	2 x full scale pressure
Maximum working pressure	110% of full scale pressure
Ingress protection	IP 65 (protected against dust and jets of water)
Size and weight	L. 56 mm. Dia. 44 mm. 106 g