

PM 620 Pressure Modules

Features

- Fully interchangeable with no need for set-up or calibration
- Simple screw fit - hand tight no tools required
- Ranges from 25 mbar to 1000 bar (10 inH₂O to 15000 psi)
- Accuracy from 0.005% FS

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.

MC 620/G Module Carrier

Features

- 2 independent pressure channels
- Simple to re-range
- Pressure protection

The MC 620/G module carrier attaches to the head of the DPI 620/G to provide two independent pressure measurement channels. These can be fitted with any PM 620 pressure module from 25 mbar to 1000 bar (10 inH₂O to 15000 psi). A simple screw fit means no tools are required and ensures both a high integrity pressure seal and a reliable digital interface. Even the pressure adapters are interchangeable and only require a finger tight fit.

The carrier is designed for pressure safety and will automatically seal if a module is not fitted or if the user attempts to remove it.

MC 620/G Specification

Maximum pressure	400 bar (5800 psi) pneumatic 1000 bar (15000 psi) hydraulic
Pressure media	Compatible with stainless steel and nitrile seals
Pressure safety	Pressure equipment directive class SEP
Size and weight	80 mm x 100 mm x 110 mm, 640 g



PM 620 Specification

Maximum intermittent pressure	2 x FS
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 61010-1:2010; MIL-PRF-28800F for Class II equipment, 1 m Drop Tested
EMC	BS EN 61326-1:2006
Electrical safety	BS EN 61010-1:2010
Pressure safety	Pressure equipment directive class SEP
Approval	CE marked
Size and weight	L. 56 mm, Dia. 44 mm, 106 g maximum

Gauge Ranges (referenced to atmosphere)

		Media	NLH&R 20°C ±2°C (68°F ± 4°F) 24 hr	NLH&R 0° to 50°C (32° to 122°F) 24 hr	Total uncertainty 0° to 50°C (32° to 122°F) for 1 year
			Gauge	Gauge	Gauge
bar	psi		%FS	%FS	%FS
±0.025	±10 inH ₂ O	1	0.090	0.090	0.100
±0.07	±1	1	0.025	0.030	0.047
±0.2	±3	1	0.020	0.027	0.045
±0.35	±5	2	0.020	0.025	0.044
±0.7	±10	2	0.015	0.020	0.041
±1	-14.5 to 15	2	0.015	0.020	0.041
-1 to 2	-14.5 to 30	2	0.015	0.020	0.025
-1 to 3.5	-14.5 to 50	2	0.010	0.020	0.025
-1 to 7	-14.5 to 100	2	0.010	0.020	0.025
-1 to 10	-14.5 to 150	2	0.005	0.020	0.025
-1 to 20	-14.5 to 300	2	0.005	0.020	0.025
0 to 35	0 to 500	2	0.005	0.020	0.025
0 to 70	0 to 1000	2	0.005	0.020	0.025
0 to 100	0 to 1500	2	0.005	0.020	0.025
0 to 135	0 to 2000	2	0.005	0.020	0.025
0 to 200	0 to 3000	2	0.005	0.020	0.025

NLH&R Non-linearity, hysteresis and repeatability

① Compatible with non-corrosive gas/fluid

② Compatible with stainless steel

* The reading can be referenced to ambient air pressure via a software feature of the DPI 620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement

DPI 620 Genii pressure resolution: adjustable 4 to 7 digits. Uncertainty confidence level 95% (K=2)

Absolute Ranges (referenced to vacuum)

		Media	NLH&R 20°C ±2°C (68°F ± 4°F) 24 hr	NLH&R 20°C ±2°C (68°F ± 4°F) 24 hr	NLH&R 0° to 50°C (32° to 122°F) 24 hr	NLH&R 0° to 50°C (32° to 122°F) 24 hr	Total uncertainty 0° to 50°C (32° to 122°F) for 1 year	
			Absolute	*Sealed Gauge	Absolute	*Sealed Gauge	Absolute	*Sealed Gauge
bar	psi		%FS	%FS	%FS	%FS	%FS	%FS
0 to 0.35	0 to 5	2	0.030		0.050		0.080	
0 to 1.2	0 to 35 inHg	2	0.020		0.036		0.070	
0 to 2	0 to 30	2	0.015		0.036		0.052	
0 to 3.5	0 to 50	2	0.015		0.036		0.050	
0 to 7	0 to 100	2	0.015		0.036		0.050	
0 to 10	0 to 150	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 20	0 to 300	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 35	0 to 500	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 70	0 to 1000	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 100	0 to 1500	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 135	0 to 2000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 200	0 to 3000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 350	0 to 5000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 700	0 to 10000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 1000	0 to 15000	2	0.015	0.005	0.033	0.020	0.049	0.025