

PM620 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 1,000 bar (10 inH₂O to 15,000 psi)
- Accuracy from 0.005% FS
- Safe and Hazardous area Versions available

The PM620 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

MC620G Module Carrier

Features

- 2 independent pressure channels
- Simple to re-range
- Pressure protection
- Safe and Hazardous area Versions available

The MC620 module carrier attaches to the head of the DPI620 to provide two independent pressure measurement channels. These can be fitted with any PM620 pressure module from 25 mbar to 1,000 bar (10 inH₂O to 15,000 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



MC620G Specification

Maximum pressure	400 bar (5,800 psi) pneumatic 1,000 bar (15,000 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

MC620-IS Specification (where different to MC620G)

Size and weight	78 mm x 100 mm x 110 mm, 820 g
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PM620 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

PM620-IS Pressure Module Specification (where different from PM620)

Operating temperature	-10 to 40°C (14 to 104°F)
Approval	Baseefa 16ATEX0012X IECEX BAS 10.0004X Ex II 1 G Ex ia IIC T4 Ga (-10°C ≤ Ta ≤ +50°C)
EN60079-0:2009	Electrical apparatus for Potentially Explosive Atmospheres - General Requirements. (Harmonized) (IEC 60079-0:2007 Edition 5)
EN60079-11:2007	Electrical apparatus for Potentially Explosive Atmospheres - Intrinsic Safety 'i'. (Harmonized) (IEC 60079-11:2006 Ed 5)

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 1,000	2	0.005	0.020	0.025
0 to 100	0 to 1,500	2	0.005	0.020	0.025
0 to 135	0 to 2,000	2	0.005	0.020	0.025
0 to 200	0 to 3,000	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 DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement

DPI620 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 1,000	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 100	0 to 1,500	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 135	0 to 2,000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 200	0 to 3,000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 350	0 to 5,000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 700	0 to 10,000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 1000	0 to 15,000	2	0.015	0.005	0.033	0.020	0.049	0.025